The Mining Journal OMMERCIAL GAZETTE.

FORMING A COMPLETE RECORD OF THE PROCEEDINGS OF ALL PUBLIC COMPANIES.

No. 677 .--- Vol. XVIII.

LONDON, SATURDAY, AUGUST 12, 1848.

PRICE 6D.

Stannaries of Cornwall-In the Vice-Warben's Court.

COOMEE *. BICE.

BURGESS *. ALDERSON.

HEREAS the VICE-WARDEN did, by an ORDER, or DEGREE, made in the above-mentioned causes, and bearing date the 10th day an ORDER, or DEGREE, made in the above-mentioned causes, and bearing date the 10th day in occessary the ENGINES, MACHINERY, and MATERIALS upon and belonging to OCKS CONSOLIDATED TIN MINES, in the parishes of ROCHE and S. AUSTLE, this in the said Sannaries, under the direction of the Registers of the Court, and that e proceeds of such sale should be applied by the said Registrar in the manner directed the same Order or Decree,—
Notice is hereby given, that, pursuant to the said Order or Decree, a PUBLIC AUCTION in the Hollowing day, at Eleven o'clock in the forenoon of each day, for SELLING, ther together or in lots, the under-mentioned

MINING MACHINERY AND MATERIALS.

mining machinery and materials—viz.:

alther together or in lots, the under-mentioned

MINING MACHINERY AND MATERIALS—VIZ.:

1 70-inch cylinder STEAM-ENGINE, without boiler.
1 40-inch cylinder disto, with two boilers complete, and 18 heads of stamps.
A machine for drawing function, with 230-ft. diameter from fly-wheels, 6 inches round;
a ware-drawing machine, with 30-fteet water-wheel, 3 feet abreast; 1 capstan and shears,
with 60 fathoms of 10-inch capstan rope complete; 1 36 fathoms of tram-road fron, and
wood stands; 2 forthines, with sheft tackle complete; 26 fathoms of 1-inch by 7-inch
flattons; 27 fathoms i-inch from flat-rods; 1 large angle-bob; 1 small ditto ditto; 1
9-inch plunger-pole and bottom; 7 fathoms of 1-jinch plunger-lift, complete; 16 fathoms of 1-jinch plunger-lift, complete; 10 fathoms of 1-jinch plunger-lift,

Dated, Registrar's Office, July 31, 1888.

LAM MOOR MINE, near ILAM, in the county of STAFFORD.

—GEORGE WHITE has received instructions from the proprietors to SELL, BY UCCION; on Thursday, the 17th of August, 1848 (without reserve), the whole of the MACHINERY, MINE MATERIALS, &c., re, comprising—TWO PAIRS HORSE-WHIMS, with Joppet heads, ropes

the above mine, comprising—TWO PAIRS HORSE-WHIMS, with joppet heads, ropes and chains complete. In good condition.

From and thron buckets, miners' dial and box, from 600 to 700 feet of ash and elm timber, in the round—in lots between the round—in lots of the start own one horse cart (nearly new), three sets of horse gearing, with sundry other effects.

Sale to commence at Two clocks in the forences.

WEST BASSET.—TO BE SOLD BY PUBLIC AUCTION
at the MINE, on Monday, the 28th line, at These visibilities at The state of the VV. at the MINE, on Monday, the 28th inst, at Three o'clock in the afternoon, in one let, all that MINE, called WEST BASSET, and the MATERIALS thereor, consisting of a 36-inch cylinder STEAM-ENGINE, with boiler, about 10 tons; 100 fathoms at 10-inch pitwork, and a variety of other articles, all in good condition. The mine is situate in the parish of Illogan, in the county of Cornwall—west of South Wheal Basset—north of and adjoining South Wheal Francis.

For inspection of the saine and materials, apply to the agent thereon; and for further particulars, to Captain William Richards, Redruth.

Dated August 6, 1848.

FLINTSHIRE.—TO BE SOLD, BY PRIVATE TREATY all those PREEHOLD LEAD and ALKALI WORKS, situate at FLINT, in the

all those FREEHOLD LEAD and ALKALI WORKS, situate at FLINT, in the county of Fint.

The LEAD-WORKS contain smelting-furnaces, siag-hearths, refineries, crushing-mills, red lead ovens, with grinding apparatus for eight ovens, &c., and one of the finest rolling-mills in the kingdom, nearly new, with with of rolls of 9 ft. 2 in.; three steam-engines tand on the premises, which have also the advantage of water-power, by means of a re-ervoir, supplied by a large stream of water, working two wheels.

The ALKALI-WORKS consist of lead chambers, furnaces, vats and pans, &c., copulete, and are adapted for the manufacture of 30 tons of soda ash per week.

The whole premises, which are freehold of inheritance, embrace about 8 acres of land, and stand on one of the deepest points of the River Dee, where vessels of large size can lei in safety; and, by means of a wharf and crane, can be laden and unladen with the greatest facility.

is in safety; and, by means or a what has cleaned, and adjacent collieries, recates facility.

Coal is brought to the doors of the furnaces, by a railway from adjacent collieries, A good turnpike-road, and the Chester and Holyhead Railway, run through the perty—the latter having a station at a distance of about 200 yards; and, altogether, it ituation of the premises cannot be surpassed, and stands unequalled for the beneficiarrying on of a great and extensive business.

The recent expiration of Mr. Pattinson's patent, for the desilverising of lead, affor roat advantage, and makes the present a valuable opportunity for the profitable inverse of capital.

For all further particulars, and to treat, apply to George Potts Roskell, Esq., Stockyn olywell, Flintshire; Mr. Williamson, solicitor, Holywell; or to Mr. Wm. Williamson

or, Holywell. nod house on the premises, with spacious offices and stable. well, July 22, 1848.

O BE SOLD, OR LET, a valuable COAL MINE, in the township of GREAT HARWOOD, in the county of Lancaster. The mine has been recently proved, and found to be 3 feet 2 inclies in thickness, and of excellent quality; it is commonly called, or known, by the name of the UPPER MOUNTAIN MISE, and extends over about 1000 statute scros, which will be divided into suitable lots. This property is situated between the towns of Blackburn and Clitheroe, and is intersected by a branch of the East Lancashire Railway.

A section of the borings may be seen, by applying to Mr. Boosle, Rufford-hall, Ormskirk; or to Mr. Whittle, coal viewer, Charnock Richard, Chorley—to either of whom proposals may be seen.

EAD MINE.—To be SOLD, the GOODWILL of the UN-RERIAN, in Aryleshire, with the MACHINERY, &c.

This Mine is conveniently situated at the head of Lock Creran, and yields ores of ar-rentiferous galens, copper, and brown blende, and is presently in good working condition.

The working value may be traced over a large extent of ground; and very promising sad ore was recently discovered, and partially opened up, at about 300 fathoms from the resent workings, but in the same vein.

There is a powerful CRUSHING MILL, and complete set of WASHING APPARATUS, with MIMERS' HOUSES, CAPPENTERS and BLACKSMITHS' SHOPS, OFFICE, &c., the mine; and, as the lessee wishes to be wholly quit of business connections, the whole will be disposed of on liberal terms.

may be made to Mr. Burgess, at Minefield, by Appin, N.B., who will afford ever-for inspecting the mine.—Minefield, July 25, 1848. O CAPITALISTS, COAL MERCHANTS, AND OTHERS—PAREGATE.—TO BE LET. a very extensive and valuable COAL-FIELD—tated upon the property of the Hon. E. M. D. Mostyn, M.P., in the vicinity of PARK.—TE, in CHESHIRE.—The above coal-field, which has been sufficiently proved, may, its abort distance from the Bilter Messey and Bilterhanded, from the moderate double.

as short distance from the fiver Mersey and Birkenhead, from the moderate depth as which the coal lies, and consequent easy cost of working it, be expected to enter into successful competition in the supply of coal for Liverpool, with the St. Helens and other districts, from whence that town is at present supplied.

For further particulars, apply to Mr. John Lancaster (of Wigan), Mostyn Collisies, Holywell; or Messrs. Williams and M'Leod, Temple, London.

Holywell; or Messrs. Williams and M'Leod, Temple, Lornoun.

DUKE OF PORTLAND'S TROON COAL—Edinburgh,
August 1,1848.—These are to intimate, that Messrs. ARCHIBALD FINNIE and
SON, of KILMARNOCK, have now become the SOLE LESSES of His Grace the DUKE
OF FORTLAND'S KILMARNOCK COLLIERY, and the ONLY SHIPPERS of the
Duke's COAL at TROON.

Commissioner for His Grace the Duke of Portland

With reference to the prefixed, Messrs. ARCHIBALD FINNIE and SON take this opportunity of intimating, that their NEW PITS are producing COAL, which has proved to be superior to any hitherto shipped from His Grace's collieries. Great care is given to accure the proper working, and particularly the due acreening of the coals; and, by improvements being effected on the loading apparatus at the harbour, the faigue of shipment, and consequent breakage and dust on the cargoes will be, in a great measure, avoided.

MMONIACAL LIQUOR-LIVERPOOL UNITED GAS HT COMPAAY.—Persons desirous of PURCHASING, for a term of years, the AMMONIACAL LIQUOR which may be generated at the se-ils company in Liverpool, are requested to SEND in their TENDERS to the property of the property of the property of the property of the eation to Mr. Alfred King, the company's engineer, or to Gas Office, Dale-street, Liverpool, August 1, 1848.

A SSAVING

SSAYING AND ANALYSIS .- Mr. MITCHELL begs to A SSAYING AND ANALYSIS.—Mr. MITCHELL begs to inform the MANAGERS, &c., of MINES, SMELTING-WORKS, and MANUFAC TORIES, that he still continues to CONDUCT ASSAYS and ANALYSES of all PRODUCTS, metallurgical and manufacturing, at his LABORATORY, 23, HAVLEY-ROAD, RENTISH TOWN, LONDON, to which address communications are to be forwarded.—Instruction in all branches of assaying and analysis as usual.

A SSAYING.—Mr. R. F. MUSHET (son of the late eminent metallurgist, David Mushot, Esq.) ASSAYS IRON ORES and IRONSTONES, of all descriptions, at the charge of 7s. for each assay—giving the metallic contents of each ore with perfect accuracy.—Address: Coleford, Gloucestershire.

TENTILATION OF COAL MINES-BIRAM'S PATENT AREMOMETER.—This INSTRUMENT has now been SUCCESSFULLY EMPLOYED by many eminent engineers, to whom reference can be given.

For particulars, apply either to the inventor, B. Biram, Esq., Wentworth, near Rother ham; or to the maker, John Davis, Derby, manufacturer of miners' dials, clinometer safety-lamps, and all kinds of instruments appertaining to the engineer, are made and key in stock.—Repairs promptly attended to.

J. DAVIS, Irongate, Derby.

POURDRINIER'S PATENT SAFETY APPARATUS, for PREVENTING ACCIDENTS IN MINES AND OTHER PLACES, WHEN THE ROPE OR CHAIN BREAKS.

By the ADOPTION of this INVENTION the LIVES of the WORKING MINERS may be PRESERVED, and the PROPERTY of the MINE OWNERS PROTECTED from the serious consequences of either of the following accidents—viz.:

1. From the men, or the load, being precipitated to the bottom of the shaft when the rope or chain breaks: in this case the apparatus is self-acting.

2. From either the men, or load, being drawn over the pulley: in this case, also, the apparatus is self-acting.

3. From the fearful consequences to men or load of a "whirl," or run: in this case the result is equally certain.

A COAL PIT, with the SAFETY APPARATUS ATTACHED to the CAGE, is daily

he result is equally certain.

A COAL PIT, with the SAFETY APPARATUS ATTACHED to the CAGE, is daily at WORK near BURSLEM, in the STAFFORDSHIRE POTTERIES.

It is the state of the apparatus, or to obtain any further information, application may be made to Mr. Edward N. Fourdrinier (the patentee). Cheddleton, near Leek, Staffordahire, or DMr. Joseph Fourdrinier, 9, College-place, Camden Town, London—who are prepared of GRANT LICENSES for the USE of the PATENT.

DATENT GALVANISED IRON AND WIRE ROPE WORKS

MILLWALL, POPLAR.

ANDREW SMITH begs to inform the Mining, Railway, and Shipping interests, that has obtained a PATENT for an IMPROVED METHOD of GALVANISING IRON, producing a much superior article at a considerable saving in cost—the improved process for galvanising wire rope, adding only £10 per ton instead of £20, under the ordinary processes. The rope is extensively used in damp situations, for mining and railway pur poses, and for ships' standing rigging.

GALVANISED IRON COMPANY'S DISSOLUTION ALVANISED IRON COMPANY'S DISSOLUTION ACT, 1848.—Notice is histably given, that the directors on the 24th day of July, 1848, made a CALL of TWO POUNDS per share, pursuant to the "Glavanised fron Company's Dissolution Act, 1848," in respect of so many of the 25,000 and 20,407 shares respectively mentioned in that Act as then existed; and that the same call was made payable by the respective holders of the said shares on the 10th day of August then and now next at the bank of Measurs. Prescott, Grote, and Co., 62, Threafneedle-street, London, and was and is to be applied for the payment of the debts, liabilities, and engagements of the said company thee existing, and those didy incurred in carrying the said Act into axecution; and Notice is hereby farther given, that the directors, on the 31st day of July, 1848, adopted and confirmed the said call of TWO POUNDS per share, but post-poned the day fixed for payment thereof until the 18th day of August, 1848—and they received that the same should be payable on the said 18th day of August, 1848, by the respective holders of the said shares at the said 18th day of August, 1848, by the respective holders of the said shares at the said all 18th day of August, 1848 being the day fixed for payment thereof, interest, after the rate of 25 per centum per annum, will be payable on each 62 per share, from the said 18th day of August, 1848 (being the day fixed), up to the time when the said call is the day of August, 1848 (being the day fixed), up to the time when the said call shall be actually paid; and that if the said call, or 25 per share, to not paid within three calendar months next after the day fixed for the payment thereof, all the shares in respect of which default shall be made belonging to the person making such default, and all benefit thereof, will be liable to be forfielted.

3. Mansion-house-place, London, Jnly 31, 1848.

3. VINCENT, Secretary.

CAMERON'S COALBROOK STEAM-COAL & SWANSEA

CAMERON'S COALBROOK STEAM-COAL & SWANSEA AND LOUGHOR RAILWAY COMPANY.

Registered and Incorporated under 9 and 10 Victoria, cap. 401.

Report of the Directors of the Railway Company, submitted to the Annual General Meeting of Shareholders, held at the Company's Offices, 2, Moorgate-street, London, or Friday, the 28th July, 1848, at 1 o'clock, afternoon:—

Since the last report of the directors on this subject, on the 31st January, 1845, they have been advised to defer all measures, or incurring any expense in connection therewith; and have, as stated in their separate report of this date, proceeded with preliminary measures to acquire railway transit to the port of Lianelly.

They are the more influenced in this respect by the delay anticipated in the crection of locks at Swansea, and the continued delay in opening the South Wales Line.

The General Railway Act, passed in 1847, extends the time within which to complete his company's line for two years from August, 1849; and the directors are still of opinion, that the expense of procuring the Act, and contingent expenses in relation thereto, will be fully repaid when the line is constructed, as it cannot fall ultimately to be the principal line for traffic to the port and docks of Swansea.

Approved by the Board of Directors.

N. P. CAMERON, Chahrman.

CAMERON'S COALBROOK STEAM COAL & SWANSEA AMERON'S COALBROOK STEAM COAL & SWANSEA

AND LOUGHOR RAILWAY COMPANY.—(Registered and Incorporated.)

Notice is hereby given, that, in pursuance of a resolution of the board of directors, made on the 2d day of August inst., in virtue and pursuance of a resolution of an extraordinary general meeting of shareholders, made on the 28th day of July, 1848, the proprietors of shares in this company are hereby required to PAY a CALL of ONE POUND on each of their respective shares, on or before the 12th day of October next, to the company's bankers, the Commarcial Bank, Lothbury, London.

Interest, at the rate of 5 per cent. per annum, will be charged upon all calls remailing unpaid, from and after the said 13th day of October next; and all shares on which such call shall not be paid, are liable to forfeture, according to tha provisions of the Deed of Settlement.

By order of the board of directors,

Officea, 2, Moorgate-street, London, August 8, 1848.

A. C. HOWDEN, Sec.

can shall not be plad, are insule to invieture, according to the provisions of the Deed of Settlement.

Offices, 2, Moorgate-street, London, August 9, 1848.

C OR N W A L L N E W M I N I N G C OM P A N Y.

Capital £100,000, divided into 20,000 shares, of £5 each.

Deposit, £1 per share.

Three further calls, of 10s. per share, at 6, 12, and 18 months.

Incorporated in pursuance of the Statute of 7 and 8 Victoria, cap. 110.

BARKERS—London and County Bank, 21, Lombard-street.

The CORNWALL NEW MINING COMPANY is ESTABLISHED to WORK a series of TIN and COPPER MINES, chiefly in the district of ST. IVES, which has hitherto afforded a larger profit on its return of ore than any other part of the cofinty.

In pursuance of this plan, five have been already selected—viz.: Georgia Tin Mines, Trevertha Tin and Copper Mine, Bray Tin and Copper Mine, Trevarno Tin acid Copper Mine, and Wheal Squire Tin and Copper Mine—with whose owners the directors have succeeded in making such advantageous arrangements, as to enable them to work one or more with even. a small portion of the propageous the set of the company, and from the number already disposed of, they request parties desiring to take shares to make early application. Those to whom allotments have been made, are equested to pay their deposits into the bankers of the company, as above. Level of the company, parties who note take shares will not be required to sign it, or safer into any personal ideality for calls or otherwise, although receiving their full rights as shareholders.—The directors beg to draw attention to some of the leading advantages which holders.—The directors beg to draw attention to some of the leading advantages which holders.—The directors beg to draw attention to some of the leading advantages which has company offers:

1. It avoids the disappointment so often attending operations confined to a single mine, even under the meat favourable appearances, especially such as require a large outlay, to assentant their mineral capacity.

2. It will work those

TO MINERAL AGENTS.—WANTED, a Person, thoroughly competent to SUPERINTEND THE UNDERGROUND DEPARTMENT of an EXTENSIVE IRON-WORK, where the seams of coal are thin, and wrought under the ong-work system. None but those who have been accustomed to this system will be reated with. Undeniable references, as to character and ability, will be required. Apply (by letter, post-paid) to G. G., Post-office, Birmingham, stating age, and where reviously employed.

MANAGER OF A COLLIERY.—The ADVERTISER, who has been all his life practically engaged in working coal-pit sinking and pumping water—is a good draughtsman, and thoroughly acquainted with the making and fixing up of all kinds of mining machinery—is in WANT of a SITUATION, in ENGLAND or ABROAD. First-rate references can be given.—Address "X.," care of E. W. Binog, solicitor, Manchester.

NOTICE TO IRONMASTERS.—Any GENTLEMAN, of practical experience in the iron-trade, and possessed of a small amount of capital, who is willing to take the MANAGEMENT of WORKS, in the WEST of SCOTLAND, and to FORM a PARTNES SHIP with PARTIES about to enter into the TRADE, under advantageous circumstances, may hear of such an opening, by communicating his name (confidentially) to Bannatynes and Kirkwood, writers, 50, West George-street, Glasgow, July 26, 1848.

DEAN FOREST, GLOUCESTERSHIRE.—TO BE SOLD, A LARGE HEON MIKE ESTATE.—For particulars apply to A. East, Esq., associetor, Bell-Street, Birmingham.

TO CAPITALISTS—SCIENTIFIC OR OTHERWISE.— WANTED, from FIVE HUNDRED to ONE THOUSAND POUNDS for securing PATENTS in FOREIGN PARTS, for several IMPORTANT INVENTIONS, about to appear before the public (for which the English patent has been obtained). Only part of the above amount is wanted immediately. Any party having the above sum at command will find this an excellent opportunity for the investment of capital, as ample security will be given, and the most liberal terms conceded to.—Apply to Mr. A. Campbelle 184, Fleet-street.

MINING OFFICE S—ESTABLISHED FIVE YEARS.—
THOMAS P. THOMAS begs to inform his friends and the public, that he has
REMOVED from No. 18, Threadneedle-street, to No. 3, GEORGE-YARD, LOMBARDSTREET, LONDON (late Messrs. Phillips and Tiplady's).
N.B.—Dealer in English and Foreign Funds, Mining, Railway, Gas, and other abaros.

MR. R. TREDINNICK, THREE KING'S COURT, LOMBARD-STREET, LONDON,
Continues to DEAL in every description of MINING, RAILWAY, BANKING, INSU
RANCE, CANAL, and OTHER SHARES.—Statistical information afforded gratuitously
pon personal application.—MONEY ADVANCED upon the above securities.

MR. H. B. RYE, GENERAL AGENT for the DISPOSAL of MINING PROPERTIES, invites the attention of his friends and the put to the unusually FAVOURABLE TERMS on which INVESTMENTS may now be ms in MINE SHARES.—Ample information (for the guidance of buyers) may be had at offices—80, Old Broad-street.

MR. JAMES STRIDE'S MINING, SHARE, AND WILLIAM W. TAYLOR & CO., MINERAL SURVEYORS
MINING SHAREBROKERS, &c.,
No. 2, ROYAL EXCHANGE BUILDINGS, LONDON.

JAMES LANE, MINING SHARE DEALER, 15, OLD BROAD-STREET, LONDON.

WILSON & FRASER, 2, WELLINGTON - BUILDINGS
LIVERPOOL, and 13, EXCHANGE-PLACE, GLASGOW, have always ON SAL
PIG-IRON, BAR-IRON, RAILWAY CHAIRS, and RAILWAY BARS.

MONEY.—MESSRS. KILLICK & CO. (late WINSTANLEY, KILLICK, & CO.), SHAREBROKERS, Inform their bland as WINSTANLEY, Killier, & Co.), SHAREBROKERS, inform their friends and the public, they make IMMEDIATE ADVANCES, to any amount, on the deposit of English and Foreign Rallway Shares. Scrip, and Debentures, upon exceedingly advantageous terms: they also BUY and SELL every description of STOCK and MINING SHARES, at much less commission than usually charged.—6, Bank Chambers, opposite Bank of England.

NITED MEXICAN MINING ASSOCIATION.—Notice is hereby given, that a DIVIDEND of FIVE SHILLINGS per share will be PATABLE at the office of the association, on and after Wednesday next, the 2d of August, between the hours of Eleven and Three.—Forms for claiming the dividend may be obtained at the company's office, and must be left two clear days, for examination, previous to payment.

5. Finsbury-circus, London, July 26, 1848.

5. The holders of scrip shares will not be entitled to receive the dividend until their shares are registered.

GADAIR MINING COMPANY.—At a Special General Meeting of the adventurers in the Gadair Mining Company, held on Monday, the 7th ing of the adventurers in the Gadair Mining Company, of August, 1848, G. W. BLANCH, Esq., in the chair.

day of August, 1848, G. W. BLANCH, Esq., in the chair.

The chairman having explained to the meeting the reason of the management not having been removed to Manchester, as proposed at the last meeting, and it being deemed desirable to elect a managing committee, it was moved and seconded,—
That a managing committee of three be appointed, and that the following gentlemen be nominated to such offices—G. W. Blanch, Esq., J. Truscott, Esq., and H. English, Esq. Resolved,—That a meeting be held on the first Tuesday in every alternate month. An offer having bean made by Mr. English of the use of his offices gratuitually for the next four months, for the purposes of the company, it was Resolved,—That the bainess of the company to transacted at No. 25, Fleet-street, and that Mr. English be requested to act as purser—which office was accepted—the services being rendered gratuitually by that gentleman.
Resolved,—That the company be henceforth considered as confined to 3540 shares, end that the remaining shares be cancelled.
Resolved,—That a call of 3s. per share be made on the shareholders, for liquidating the claims due on the nine—the same being payable on or before the 36th August, 1848.
Resolved,—That a call of 2s. 6d. per share be now made, for the purpose of prosecuting the mine, payable on or before 9th September next.
Resolved,—That the secounts presented this day be admitted, and that a copy of the

Resolved,—That a Call of several development next.

Resolved,—That the accounts presented this day be admitted, and that a copy of the same be transmitted to the several adventurers, with the resolutions passed at this meeting.

G. W. BLAKCH, Chairman.

Resolved,—That the thanks of the meeting be presented to the chairman.

Resolved,—That the thanks of the meeting be presented to the chairman.

TRENANCE MINES COMPANY.—At the Second Annual General Meeting of shareholders in this company, held at the offices, No. 12, Corn. hill, London, on Friday, the 28th day of July, 1848,

GEORGE BURNAND, Esq., in the chair,

The notice convening the meeting was read, as also the report of the directors—see another column of this day's Mining Journal.

The accounts having been submitted—it was Proposed by B. E. Lindo, Esq., seconded by Francis Burnand, Esq.,

That the report and accounts, now read, be received, adopted, and entered into the cost and transfer book.—Carried unanimously.

Proposed by F. Berger, Eaq., seconded by J. H. Pidcock, Esq.,

That G. Burnand, Esq., be re-elected a director of this company.—Carried unanimously.

That B. E. Lindo, Esq., be re-elected an auditor of this company; and that James Edmand Smith, Esq., be elected an auditor, in the stead of William F. Street, Esq.—Carried unanimously.

Proposed by J. Macmeikan, Esq., seconded by Francis Burnaud, Ersc., Esq..

Proposed by J. Macmeikan, Esq., seconded by Francis Burnaud, Esq., be re-elected an auditor, in the stead of William F. Street, Esq.—Carried unanimously.

Proposed by J. Macmelkan, Esq., seconded by Francis Burnaud, Esq.,
That the cordial thanks of the meeting be given to the chairman and directors, for
their scalous attention to the business of the company.

their scalous attention to the business of the company.

WEST WHEAL MARIA MINING COMPANY.—At a General (two-monthly) Meeting, beld at the offices of the company, No. 1, St. Michael's-aliey, Cornhill, on Thursday, the 10th of August.

CHARLES BAILEY, Esq., in the chair,

The following resolutions were carried unanimonaly:—

1. That the appearances of the mine not warranting any further outlay, the operations be immediately suspended.

3. That the appearances of the mine not warranting any further outlay, the operations be immediately suspended.

3. That the committee of management be empowered to wind up the affairs of the company—to sell by public auction, or otherwise, the engine, materials, &c., and to dispose of the sett, and to pay off all liabilities of the company.

4. That legal proceedings be taken to recover all arrears of all, when may recommend after the 21st inst.

5. That the chanks of the meeting are due, and are hereby the company amanagement—Messra. J. Browne, Chas. Bailey, and J. Y. Was off the second of the company of the company.

WEST WHEAL MARIA MINING COMPANY
PERSONS having CLAIMS against this company of the stable to be solved), are requested to FORWARD PABTICULARS of the sun to the commanagement, at Messra, watson and Cnoil's, No. 1, 5t. Mich. The sun to don, that the sume may be investigated and discharged.

Bigned, on behalf of the commandation of the commandation

LONDON JOINT-STOCK BANK.—A special meeting of this campany was held at the banking-house, Princes-street, Bank, on Thursday last, to supply a vacancy in the direction, when Mr. W. Blank was unanimously elected.

The Saxon and Bohemian Railway was opened on the 31st July, at Dresdan, in presence of the princes, ministers, and members of both houses.

BALLS AND SHELLS FROM RUSSIA.—A vessel arrived in the river from Odesa has brought, as a portion of her cargo, 8517 balls and shells, consigned to order has brought, as a portion of her cargo, 8517 balls and shells, consigned to order.

LARGE SHEARSFOR SHEENENESS DOCKYARD.—The mastmakers of this dockyard have just completed a powerful shears, formed of pieces of timber joined together in a similar manner as the made masts of first-rate ships of war in the Royal Navy. Some idea may be formed of the magnisude of the main support of the shears, when its dimensions are given, being 127 feet long, and 3 feet 1 inch in diameter on the average throughout its entire length. It contains 1300 feet of solid timber, weighing 27 tons, and required 52 pieces, each cut out of large-sized trees, and joined together with Jeffery's marine glue, of which it required 5 cwt. to coat the joinings, and it has been so uniformly applied by the workmen, that the superfluous quantity ouzing from the joinings on the pieces of wood being pressed together with iron hoops, is calculated not to exceed 10 lbs. weight. The two side-shear masts are each formed of two very large trees, joined together with the same substance; and, when they are put up, will be of a most efficient description, capable of shipping and unshipping the largest masts used in the Royal Navy, and moving other great weights.

EXTRAORDINARY PHENOMENON.—In the forenoon of Monday last, about

EXTRAORDINARY PHENOMENON.—In the forenoon of Monday last, about 11 o'clock, the passengers in the railway train to Methley were attracted by an extraordinary circumstance—so extraordinary, indeed, that the engine driver pulled up. The attention of the passengers was directed to a mown field. Towards the centre of this piece of ground a gush of water burst out to the height of about 12 inches. Immediately afterwards it was followed by fire and vapour to the height of about 3 feet. This extraordinary circumstance occurred about a mile from Methley.—Doccaster Gazette.

a mile from Methley.—Doncaster Gazette.

Antiquity of the Electric Telegraph.—In Arthur Young's Travels in France from 1787 to 1789, published at Bury St. Edmunds, in 1792, we find the following passage, which clearly points out the discovery of the principle and the practice of the electric telegraph:—"In electricity he (Mons. Lomond) has made a remarkable discovery—you write two or three words on a paper; he takes it with him in a room, and turns a machine enclosed in a cylindrical case, at the top of which is an electrometer, a small fine pith ball; a wire connects with a similar cylinder and electrometer in a distant apartiment; and his wife, by remarking the corresponding motions of the ball, writes down the words they indicate, from which it appears that he has formed an alphabet of motions. As the length of wire makes no difference in the effect, a correspondence sight be carried on at any distance—within or without a besieged town, for instance; or for a purpose much more worthy, and a thousand times more harmless, between two towns prohibited or prevented from any better connection."

Scorbutic Humours Curred by Holloway's Ointment and Pills.—Ex-

Scorbuttic Humours Curren by Holloway's Olintment any better connection."

Scorbuttic Humours Curren by Holloway's Olintment and Pills.—Extract of a letter from Mr. George F. Williams, of Blackreck, near Cork, dated June 14, 1848:—"To Professor Holloway: Sir—I beg to state, for your satisfaction, and for the information of the afflicted, the wonderful effects your eintment and pills have had upon me. I have suffered severely from scorbutic humours, and for the last seven years my eyes have been dreadfully sore; during that period I tried almost every remedy, without obtaining the least relief; at last, I was prevailed upon to use your invaluable medicines, which I did, and I am delighted to say that I am perfectly cured by them." Sold by all druggists, and at Professor Holloway's establishment, 244, Strand, London.

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MANHOOD: the CAUSES of its PREMATURE DECLINE, with plain directions for its perfect restoration. A Medical Essay on those diseases of the Generative Organs, emanating from solitary and sedentary habits, indiscrimate excesses, the effects of climate, and infection, &c., addressed to the sufferer in youth, manhood, and old age; with practical remarks on marriage, the treatment and curry of nervous and mental debility, impotency, sphilis, and other urino genital diseases, by which even the most shattered constitution may be restored, and reach the full period of life allotted to man. The whole illustrated with numerous anatomical engravings on steel, in colour, explaining the various functions, secretions, and structures of the reproductive organs in health and disease; with instructions for private correspondence, cases, &c.—By J. L. CURTIS & CO., consulting surgeons, 7, Frith-street, Sohe-sq., London neviews of the form of the folial period of the colour, explaining the various functions, secretions, and structures of the reproductive organs in health and disease; with instructions for private correspondence, cases, &c.—By J. L. CURTIS & CO., consulting surgeons, 7, Frith-street, Sohe-sq., London never fine the folial private of the second of the reproductive organs in health and disease; with instructions of seciety by whom that will not be found useful—whether such person hold the relation of a parent, proceeding for the Perfect Restoration.—[Strange, Patermoster-row.]—This is a book replete with ralumble advice and information. It developes the fearful shoals on which a large proportion of human happiness is wrecked, and furnishes a chart by which they may be avoided and escaped. Fortunate for a country would it be, did its youth put into practice the philanthropic and selentific maxims here laid down. One cause of matrimonial misery might then be benighed from our land, and the race of the encryte be succeeded by a renewal of the hardy vigorous spirits of the olden

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The Michallurgical Exentment at Ores.

By Jours Mirchell, Esq., M.C.S., author of A Manual of Practical And

No. XXV.—[Consisted from July 22.]

When cobalt ores are worked for the products mentional in a it is necessary to have at command very white and pure sand, or quartz, as well as potash of the best quality—so that the glass, formed by their fusion, may have as little tings as possible. The ores themselves undergo a very careful mechanical preparation, by picking, stamping, and washing. The ores of cobalt contain (as shown by the analyses already cited) cobalt, arsenic, sulphur, iron, nickel, and sometimes bismuth. Of all these substances, the

nickel and arsenic are the least oxidisable, and this property is taken advantage

of m the separation of the nickel.

The finely stamped and washed ore is roasted in a reverberatory furnace, in order to deprive it of a portion of its sulphur and arsenic. To the furnace is attached a sublimation chanber. In case, however, the ores contain nickel, the roasting is only partial, because the oxide of that metal, which would be produced, would much deteriorate the fine blue colour which the glass, &c., ought to possess; from 3 to 5 cwts. form a charge. The roasted ore is then mixed with quarts, or sand, and potash, in certain proportions; and sometimes, in order to favour the fusion, a little arsenious acid, or metallic arsenic, is added. When the ore does not contain nickel, the principle of the above operation can be readily comprehended. By the roasting the sulphur is converted into sulphurous acid, and the arsenic into arsenious acid. The cobalt and iron remain in the state of oxides, but there is a quantity of arseniate of both metals always formed. When the ore contains nickel its separation is effected by an incomplete roasting. The imperfectly roasted ore, being submitted to the action of silica and potash, furnishes, if the operation has been well conducted, a blue glass, coloured by the cobalt, and an arseniuret of nickel, which separates. If the roasting has not been carried far enough, the arseniure to or facts the continuity of cobalt; if, on the contrary, it has been carried to far, the ore is very rich in nickel, and its betaty of colour much impaired. In case the ore is very rich in nickel, and its betaty of colour much impaired. In case the ore is very rich in nickel, it is better to add to it, more or less of roasted ore, and proceed at once to the fusion. Smalt contains is of potash and cobalt (blue) are not in a state of complete combination—for, during washing, as will be hereafter shown, a light-coloured product is obtained. It is an alkaline silicate, containing very hittle cobalt, and the wash-waters contain free in which the ore has been reasted. This are not in a state of

nace. When cold it is sitted, and is then ready for use. The potash is always calcined before mixture.

When the proper proportions have been ascertained they are weighed out, and mixed very carefully in a wooden vat. The pots are made of a very refractory clay, and in the same manner, and with the same amount of care, as those employed in glass houses; the furnace is of the same kind, and contains six pots, each pot holding about \(\frac{1}{2}\) evi. The mixing vat is near the furnace, as is also another vat, filled with water, and furnished with a contrivance, by which cold water may continually run into it; the fused glass is poured into this. Soon after the introduction of the matter into the pots, the openings are closed with plates of iron. The fusion generally takes place in about eight hours; during the first five the workmen sit it he contents of the pot with a red-hot iron rod, in order to break a kind of crust which forms on the surface. When the glass, adhering to the end of the rod, draws out a thread, and while it appears homogeneous, and free from speiss (arseniuret of nickel), which falls to the bottom, it is ready for pouring, which is accomplished by means of an iron spoon, and the fluid glass is thrown into the vat of water just mentioned. The glass in the vat is removed, and carefully levigated.

Treatment of Ores of Nickel.—This metal possesses many properties in com-

Treatment of Ores of Nickel.—This metal possesses many properties in common with cobalt; it is greyish white, and magnetic, like cobalt and iron; it is also very infusible. Its preparation is, at the present day, a matter of very considerable importance, as a very large quantity is annually consumed in the the manufacture of German silver. The following are some of the ores of circles with their analyses.—

Nickel	44'2	30.6	** ** ** ** **	15.6	********	39.9	
Cobalt							
Iron	*6	8.6	********	16%	*********	-	
Arsenic	54'8	51.0	*********	46.0		48.8	
Antimony			********	1.4		8.0	
Sulphur	** *******	4.2	*********	8:6		2.0	
Gangue		4	*******	5-8	*******	-	
11.2				-		-	
	100.0	97.0		98.6		98:9	

Arsenio-Sulphuretof Nickel—Grey Nickel—has a greyish white, shining, metallic appearance; in the closed tube a large quantity of sulphuret of arsenic sublimes. It is often found mixed with arsenical nickel and mispickel. The first analysis by Berzelius, of the grey nickel of Loos, in Nelsingland; the second by Hoffman, of the grey nickel, from Hasselhue, near Tanne, in the Hartz.

Hoffman, of	the	grey	nickel,	from	Hasse	lhue,	near	Lan	me, m
Nickel			******	29-9					30:0
Cobalt				.9	*****				.6
Iron				4.1	*****				3.3
Arsenic				45-4	*****				53.6
Sulphur				19-3	*****				11.0
Gangue .			******	-9				-	-
				-					-
				100.2					98.5

Antimonio-Sulphuret of Nickel is very like the above ore—grey nickel. Be-fore the blow-pipe in the open tube an abundant smoke of oxide of antimony is given off. The first analysis is by H. Rose, of the ore found at Landscron, in the Siegen district; the second that of Treusbourg, by Klaproth

 Nickel
 28'0
 25'3

 Arsenic
 11'7

 Antimony
 54'5
 47'7

 Sulphur
 15'5
 15'3
 98.0

Composition of spease obtained in the treatment of the cross of cobalt:—Nickel, 49-0; cobalt, 3-2; copper, 1-6; arsenic, 37-8; sulphur, 7-8; antimony, a trace; adhering sand, 6 = 100-0.

Adhering sand, 6 = 100°0.

Metallic Nickel is prepared from the pure oxide, in the same manner as metallic cobalt, by heating it in a pot lined with charcoal; or else the oxide must be mixed with charcoal and some vitreous matter, to act as flux.

Preparation of Oxide of Nickel from Speiss—Tupput's Method.—Reduce the speiss to powder, and add to it 2½ parts of nitric acid, sp. gr. 1°3, diluted with an equal bulk of water; an action gradually takes place, and, by the aid of a gentle heat, the whole dissolves. All the metals in the solution exist, as sulphates, areaniates, and nitrates; and a considerable portion of the arsenic exists as arsenious acid. The solution is filtered and concentrated to one-fourth of its volume, on which a large quantity of arsenious acid, in distinct crystals, is deposited. These crystals are separated by filtration, and the liquid is again evaporated; and, when yet hot, a solution of carbonate of soda is gradually added to it, taking care to agitate it briskly, in order to favour the evolution of carbonic acid, and render the reaction more uniform; in proportion as the excess of acid is neutralised, the arseniates contained are deposited, in the order

of their non-solubilities. The arseniate of peruxide of iron precipitates first; then that of cobalt and capper; and, lastly, that of nickel. The first that forms consists of yellowish-white flocks of arseniate of iron, after which a fine rose-coloured procipitate is obtained, which is arseniate of cobalt, mixed with a little arseniate of copper and manganese. It is easy to separate the whole of the arseniate of fron; but it is not so easy to separate the arseniate of cobalt; because, when the greater part is precipitated, arseniate of nickel also fulls. The precipitate becomes pale green, and more or less cobalt is separated, in proportion as the operation is carried on to a greater or less extent. There remains in the liquid, arseniate, nitrate, and sulphate, of nickel, together with a little cobalt. It must now be much diluted with water, and a current of sulphuretted hydrogen gas passed through it. If the liquid be sufficiently acid, this gas throws down neither nickel nor cobalt; but precipitates a sulphure of arsenic. After some time the liquid becomes cloudy, and lets fall flocks of a fine yellow colour—this is the sulphur compound of arsenic. When the solution, after filtration, smells strongly of sulphuretted hydrogen, it is then diluted with water, and excess of solution of carbonate of soda added, which throws down a carbonate of nickel of a pale green colour—this contains only a small quantity of cobalt. If this be well washed with water, dried, and carefully ignited, in an earthern crucble, oxide of nackel will be the product. This operation can be much shortened by adding to the speiss, before dissolving it, some iron filings, as recommended in the preparation of oxide of cobalt.

Berthier's Process.—Reduce the speiss to fine powder, and roast it until no more arsenical vapours are disengaged—taking great care in the management of the fire, so as to prevent the fusion of the roasting matter. Add to the roasted speiss a suitable quantity of metallic iron, which must be in such amount that the whole

[In next week's Journal, the treatment of the ores of nickel will be concluded.]

In next week's Journal, the treatment of the ores of nickel will be concluded.]

THE TAYY CONSOLS—CLAIM OF A DISCHARGED CAPTAIN FOR WAGES.—At the Tayistock County Court, an action was brought by Mr. A. W. Martin, late a captain in the Tayy Consols Mine, against Mr. W. Rendle, a shareholder therein, to recover 20L, as salary for four months. Mr. J. Tucker appeared for the plaintiff, and Mr. R. Robins for the defendant. Mr. Tucker appeared for the plaintiff, and Mr. P. Pisher, the purser, who was examined at great length, and from the evidence it appeared that the plaintiff, being the captain of the mine, was at Tayistock on the 1st of December last, and there met with an accident, and broke his leg, which rendered him unable to attend to his duties as captain for a considerable time. Another captain was, therefore, appointed pro tem, and soon after his appointment was confirmed, which virtually superseded the plaintiff. The adventurers, however, entertaining a friendly feeling for the plaintiff, agreed to pay him 3L 3s. per month for the three months following the accident—December, January, and February. The plaintiff took no steps towards being reinstated, and no evidence was offered to show that he had made any application for the purpose until about the middle of June, when he attended a meeting of the adventurers, and stated that he was well enough to attend to his duties again, and asked them for a situation, and they decided that his application should not be entertained; and the consequence was, that he brought the present action to recover salary for the months of March, April, May, and June, at the rate of 6L 6s. per month (which was the salary he received before the accident) abandoning the excess beyond 20L in order to bring it within the jurisdiction of the court. It was attempted to be shown, that the adventurers had always considered him as their agent, insamuch as in the month of March last they agreed to refer a matter in dispute between them and some of their workment ot heir captain (the plain

ACCIDENTS.

ACCIDENTS.

Dreadful Pit Accident at Kingneinford—Eight Men Burnt by an Explaion of Gaz.—A melametholy accident from explosion of fire-damp occurred to the colliers employed in a pit belonging to Mesers Jones and Oakes, at the Stand Hill Colliery, near Kingawinford eight of the poor fellows were so frightfully burnt, that little hopes were at first entertained of their recovery. The names of the unfortunate men are Sergeant, John and Themas Capewell, Guest, Bullock, Hadyn, Singson, and another, whose name we could not ascertain. They were attended by Mr. Cochrane, from Butley, and Mesers. Russell and Chapman, assistants to Mr. T. P. Kempson, of Brierley Hill, with great promptime, and more their respective treatment some of them are likely to recover. Sergeant has since died, and we are informed that one, if not iwo other of the unfortunate sufferers are not expected to survive. It seems that the men were proceeding with others along the gateway of the pit towards the stations at which they usually followed their occupations, and while passing along, bearing a light (whether a safety-lamp or an ordinary lanthorn is not yet ascertained), a quantity of gas that had been generated during the night ignited, and caused the explosion which has been attended with such fatal results Since the above was in type we have received further particulars of this melamchly occurrence. It appears from the evidence adduced at the inquest, at the Rock Tavern, Brockmoor, that George Simpkias, "doggry," who is represented as being a very careful man, was in the act of trying the pit with the safety lamp when the explosion ensued. The pit was very carefully worked, having two sur-heads. Several men employed in the pit gave testimony as to the great care which was exercised in its working. Mr. Oakes, one of the proprietors of the collegy, submitted a map of the workings, for the inspection of the jury, who returned a verdict of "Accidental Death." The two poor lads who have lost their lives are William Sergeant, aged 19, and Joseph Gu

Tiplon.—Thomas Wood was killed by a piece of limestone, which was blown with considerable violence to a distance of 50 or 69 yards, and which struck him on the head, while firing the mine in a pit at Dudley Part, belonging to Mr. Glies.

Most Auful Death.—An inquest was held on Thursday at the Gray Mare, at Gann Habergham Eaves, on view of the body of John Boothman, aged 13. The deceased a drawer in Bartlay-hills coal mine, and on Tuesday evening had ascended the shuich is 175 yards deep, in a tub drawn up by the engine. On getting out of it on to side of the pit, his foot slipped, and he fell down the shaft. In falling, he caught a

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which is 17s yards deep, in a tub drawn up by the engine.

In falling, he caught at a stay near the top, but could not retain his hold. A person at the bottom stated that he head, and then the remainder of the body. Deep savered to pieces, no doubt, by falling against the stays in its descent.—Verdiet "Accidental Death."

Miraculous Exaps.—On Saturday last, a collier, named Richard Duckett, was dreadfully injured all over his body by the fall of an enormous quantity of coal, in a pit belonging to the Wednesbury Oak Colliery (Mr. Phillip Williams). It was some time befort the poor fellow was extricated from beneath the ponderous mass, when he was conveyed to his home at Bloomfield, Tipton, where, on examination, it was found cirrange re say), that no bones were broken! He his under the able treatment of Mr. W. E. Johnson, of Dudley.—On Monday, as a boy named York was playing in a pit at Bumble Hole Collery, with some granpowder for blasting the mine, a quantity became ignited by a lighted candle and exploded, severely burning the improdent lad about the head and shoulders.

Wichneibury.—J. Glover was killed by a fall of roof in Mr. Walker's colliery—a fellow workman, named Walker, was nearly overwhelmed by the same mass.

wurkman, named Walker, was nearly overwhelmed by the same mass.

Holly Hall Collery, Dudley.—E. Stephens, who had been at work all Wednesday night, at about half-past five the following morning was going into the works to see what effect a blast of gunpowder (which had been fived about three-quarters of an hour previously, and by which time it was supposed all the coals expected to fall had fallen) had causely, when about 20 tens of the mine fell suddenly upon the unfortunate man, who, when extricated, was found to be quite dead.

Theleigh Consoft Man.—On Thursday last, William Bray was at work at the bottom of a shaft, and out taking off his "hat-cap," a large stone fell out of an ascending kibble, struck the poor fellow on the head, and inflicted a small scale wound, producing instance death, by rupturing a blood vessel in the brain, or otherwise injuring the spinni marrow just as it passes out of the skull.

THE VOLCANIC FORMATION OF THE CANARY ISLANDS.

This group of islands, seven in number, which lay in about 19° west longitude, between 27° and 29° north latitude, and about 150 miles to the south-west of Morocco, are dependencies of the Crown of Spain, and com paratively unknown to Europeans. As they possess considerable interest, in a geological point of view, the following observations, collated by the ce a geological point of view, the following observations, collated by the celebrated traveller, Mr. Von Buch, we trust will not be unacceptable to our readers:—The most considerable is the island of Teneriffe. A great portion of this island is composed of basalt, the peaks of which incline towards the coast; the felspar rocks are more abundant in the centre, which approach towards the peak, and form a species of transition to the igneous rocks, which appear to constitute the base of the volcano. The basalt is covered by a white tuff, composed principally of pumice-stone, known in the country by the name of piedra tosca; its position is remarkable by being covered by the debris of the peak. The volcanic cones are situated about the middle of the separation of the lava streams, and are generally only those of which any correct date and account can be given. The circle of the crater of elevation—from the centre of which the peak of Teneriffe elevates itself—is well defined towards the east and south; but, to the west and north, it appears at different periods to have been destroyed by the elevates itself—is well defined towards the east and south; but, to the west and north, it appears at different periods to have been destroyed by the erruptions of the volcano. The rocks which compose it are in small peaks; in the lower parts, large fragments of tuff are discovered, lying above the other igneous rocks; and the peaks of basalt are concentrated in the upper part. This leads us to imagine that the crater of elevation has opened the igneous rocks, lifted, broken, and separated them from each other, and finally placed the one over the other in great disorder. The declivity of the peak is covered with white pumice-stone, above which are large veins of black obsidian, which seem to have a vertical inclination towards the base of the grand cone, and consist of raphilite, obsidian, and pumice-stone. There are no signs of active eruption in the crater of the peak; and it appears for many ages to have only been a sulphurous mountain. stone. There are no signs of active eruption in the crater of the peak; and it appears for many ages to have only been a sulphurous mountain. The conic mountain of Chahorra, contiguous to the peak, and situated in the same crater of elevation, contains a much larger crater. These two cones, which it is impossible but to regard as parts of the same volcano, have at different periods formed themselves as large channels in the middle of the circle—so that, in former times, they have constantly established a communication from the interior with the atmosphere. The principal number of the cones of eruption are in the lower parts of the island; the eruptions, most probably, have, however, been at the elevation of the peak. The ground over which the lava has poured, is generally covered by the tuff, called tosca. Many parts of the island are remarkable, from the dykes of basalt which traverse it in all directions.

tuff, called tosca. Many parts of the island are remarkable, from the dykes of basalt which traverse it in all directions.

Grand Canary.—In many parts of this island, stones are observed with the appearance of lime colites, which are formed by the remains of shells, igneous rocks, and basalt, united by a calcareous cement. This leads us to believe that the colites of Jura have, in all probability, been formed in an analagous manner. The soil of this island is purely volcanic. In all the elevated portions, columns of basalt are seen. In the valleys, and towards the coast, the surface of the cent his observed to be intersected in the elevated portions, columns of basalt are seen. In the valleys, and towards the coast, the surface of the earth is observed to be intersected in various directions with veins of basalt. The crater, known by the name of the Caldera (kettle) of St. Damaso, is the most remarkable in the island, and one of the handsomest in the globe. There is, likewise, another crater; but less deep than that in the island of Palma. Tradition does not speak of any known eruption on the island of Grand Canary; but there are evident signs of those of an anterior date.

PALMA.—The crater of elevation in the island of Palma, and the Caldera of Palma in this island, afford one of the most interesting and instructive studies of the formation of basaltic isles. This crater, placed in the centre forms a large cavity, around which the rest are grouped. The

structive studies of the formation of basaltic isles. This crater, placed in the centre, forms a large cavity, around which the rest are grouped. The island is nearly round, with the exception of a promontory towards the south, and is entirely basaltic. The peaks of basalt are alternated with a red argillaceous earth—resulting from the decomposition of the particles of lava. The veins of basalt traverse these peaks in irregular threads, and appear more numerous in the centre; as they approach the crater, they diminish, recoil, and appear as if they were an extraneous portion of the formation. The dominant rock is in this point diorite, intermingled with crystals of felspar, amphibole, and pyrites; further from it are the white igneous rocks, containing crystals of felspar, chabasic, epidote, carbonate of lime, and common garnets; these veins have evidently traversed rocks of an older formation. crystals of felspar, amphibole, and pyrites; further from it are the white igneous rocks, containing crystals of felspar, chabasie, epidote, carbonate of lime, and common garnets; these veins have evidently traversed rocks of an older formation, the base of which is rot far distant. The basalt appears again to show itself at the entrance of the crater—the interior of which is formed of tuff and lava, inclining towards the circle. The deep valley, called Barranco de las Angustias, which stretches from the crater to the beach of the sea, is a phenomenon common to all the craters of elevation. Among the craters—the interior of which can be seen—there is none in which can be discovered any signs of cruption, or streams of lava; those cones which are on the outer side, are at a considerable distance from the great crater, and almost at the foot of the mountains. The cruptions appear to have the same contour as in the larger volcano. In general, the cruptions in the island of Palma, have occurred some distance from the mountains which formed the circle. The only one described—that of Fuen Caliente, 1677—is stated as having been followed by earthquakes. The soil raised itself, and formed eight or ten large craters, which emitted torrents of lava; subsequently, a larger crater elevated itself, and discharged an immense quantity of stones, cinders, and sand; finally, fixed gases were observed in several places to escape from the soil. The lava produced in this cruption was entirely basaltic, containing pyroxene, and a large quantity of peridot; but not the slightest appearance of fellsmar. roxene, and a large quantity of peridot; but not the slightest ap

Ance of felspar.

LANZAROTE.—The celebrated cruption of 1730, which destroyed about the course of the basalt, which one-third of the island, rose from about the centre of the basalt, which forms the soil of this locality; a numerous series of conic craters, which oc forms the soil of this locality; a numerous series of conic craters, which occupy a length of about two Spanish leagues, rest above the basalt; their cones, towards the interior of the island, are mostly open. The lava is black, containing crystals of pyroxene and some peridot in small masses, which increase in size as it approaches the head of the crater; these lavas cover an extent of ground of more than three square leagues. The cruption continued from the 1st of September, 1730, to the 16th of April, 1736; towards the end of June, 1731, flames were observed to issue from the sea, on the western coast of Lanzarote. To the northward of the island there has been an eruption, but of this there is no historial account. There are three volanic cones; that of "El Corona" is the most remarkable; but, without doubt, it was formed long antecedent to the event above related.

FUERTEVENTURA.—The island of Fuerteventura, appears to be a continuation of that of Lanzarote. Similar to that island, it is covered with volcanic cones and streams of lava; it is absolutely impossible to assign

voicanc cones and streams or lava; it is absolutely impossible to assign any epoch at which they were formed.

In using the nomenclature, or applying to every eruption of lava, the term "volcano," without inquiring whether it is a fresh volcano, is simply an abbreviation of the expression, "volcanic eruption." For instance, to style those volcanoes, which destroyed Torre del Greco, in 1794, and buried Catania in 1669, would be incorrect, as it is well known, that both these arise from no other causes than eruptions of Vesuvius and Etna. The same argument is applicable to the island of Teneriffe. The charts which indicate the volcanoes of Guimer and Careche, and these of Chic these arise from no other causes than eruptions of Vesuvius and Etna. The same argument is applicable to the island of Teneriffe. The charts which indicate the volcanoes of Guimar and Carachico, and those of Chio and Santiago, only point to these as partial eruptions of the peak. That of Teneriffe is only similar to all other principal volcanoes, being a central point, around which the principal eruptions form themselves—demonstrating, in this manner, the relative positions and principal relations between the exterior and interior volcanic causes. It is less probable that there exists the same relation between the principal volcano and eruptions in islands at a distance; and it would be somewhat bold to conjecture, that the eruptions of the islands of Palma and Lanzarote derived their origin from the peak; but it almost carries conviction that they are so, when we consider they have the same characteristies as those which take place at the foot of the principal volcano. It has never been observed there, nor in the islands further distant from Teneriffe, that different eruptions have issued from the same aperture; nor has it been perceived that in the same island continuous eruptions have followed. On the contrary, it is believed, that an eruption once terminated, promises the devasted island a durable repose; for it has been observed, the eruptions nearest to those epochs have generally shown themselves in points diametrically opposite, as regards the principal volcano—the Peak of Teneriffe—that which tends to prove that the sole cause of this and similar phenomena, is, if we may use the term, the oscillation in its circles, and at considerable distances. This is further demonstrated by the unfrequency of eruptions in the Canary Islands, which, however, merit a more detailed examination than it was possible to afford.

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irregular streams of Isleta, in the Island of Canary, the small streams of Vandama, those of Oliva, in the northern part of Fuerteventura, possess in such a manner the characteristics of modern streams, that there is not a doubt but the epochs of their descent could be traced were the history of the islands three centuries older than the discovery. The eruption of the 15th April, 1585, in the Canton of Lavanda, in the Island of Palma, is the first of which we have any data: the stream realed down towards the 15th April, 1583, in the Canton of Lavanda, in the Island of Palma, is the first of which we have any data; the stream rushed down towards the sea, after having run a space of two leagues. The second eruption known took place in the same island, on the 17th November, 1677, and destroyed the mineral baths of Fuen Caliente. To these followed those in the Island of Teneriffe, on the 31st December, 1704, and the 5th of January, 1705, in the vicinity of Guimar, and that of the 5th May, 1706, which opened itself on the heights of the city of Garachio, in an opposite direction from the peak. About a third part of the Island of Lanzarote was destroyed by an eruption, which continued, with slight intervals, from the 1st September, 1730, to 1736. On the 9th of June, 1798, a stream of lava descended from the base of the mountain of Chahorra, on the southeast side, and at an elevation of more than 6000 feet.

Few eruptions in the Island of Teneriffe can be said to have taken place at such a height, and in the other islands they have been considerably

at such a height, and in the other islands they have been considerably lower. The most elevated of those has been that of Lavanda, in the Island of Palma, which occurred at about 2600 ft. above the level of the sea The cruption of the month of November, 1824, took place about a league to the north of the port of Naos, in the Island of Lanzarote, not far from the Cape of the Anconas.

Although the small number of cruptions that have taken place might designate the Peak of Teide as the central point of these phenomena, it would be visionary to regard these different islands as formerly joined, but since separated, and torn asunder by the force of the volvanic convulsions. since separated, and torn asunder by the force of the volvanic convulsions. Each island is of itself a separate body, which contains in its centre a crater of elevation of a considerable circumference, round the exterior of which the basaltic rocks raise themselves in all forms. This is unmistake-ably observed in the Island of Grand Canary, where the exterior circum-ference indicates the direction and contour of the crater, which it contains in the centre; and its circular form proves incontestably at first sight, that this is no disjointed mass, as all its parts radiate round a centre, from whence the force proceeded, which elevated it from the bottom of the sea. This fact, and the inferences that may be deduced from it, are equally clear, and not less evident in the Island of Palma, as there the land is, at times, more or less elevated; the similarity of the declination is most remarkable between the exterior circumference of the island and the sides of the crater. The craters of elevation are less defined in Fuerteventura, and Language two islands over their voicing and lengthened externs and Lanzarote; these two islands owe their origin and lengthened extension, to eruptions in the form of veius; nevertheless, they contain craters, in Lanzarote, near the steep const, and almost vertical with the Straits of Rio, in front of the Island of Gracioso, in Fuerteventura, in the conical

basin, in the centre of which is the capital Santa Maria de Betancuria.

According to these theories, the Canary Islands must be considered as a group of isles, elevated from the bottom of the sea at various periods. According to these theories, the Canaly Islands must be considered as a group of isles, elevated from the bottom of the sea at various periods. The force capable of producing an effect so considerable, finds it necessary to concentrate and increase itself in its interior, before it attempts to conquer the resistance which oppresses it—detached from the bottom of the sea, from a great depth in the interior of the globe, formed of basalt and conglomerates, impelled with violence to lift itself above the surface, it finishes by forming the crater of elevation. Such an enormous mass, raising itself slowly, cannot recover the aperture, produced by the development of such force, without a volcano occurring; on the contrary, the peak elevates itself a great cupola in the centre of the crater of elevation; she maintains from her interior a communication with the atmosphere, and is constantly emitting vapours; if there was any obstacle to the discharge of the lava, it would issue forth at the foot of the volcano, or at some distance from it, without its being necessary to raise entire islands. The central point of these phenomena is always a volcano; at times this has been obstructed, at certain heights, by the cooling and falling of the melted masses; but this has never occurred at any depth. There exists, probably, but one central volcano in the Canary Islands, which is that of the Peak of Teide.

SULPHURIC ACID .- M. Jobard, the director of the Museum of Industry, a Brussels, has announced the arrival in London of Mr. Schneider, a distinguished manufacturing chemist, the author of an invention of the highest importance, and calculated to promote the advancement of science. By this new process, we are informed, the sulphuric acid is produced without applying any nitric acid or nitrates, and without employing any of those enormous lead rooms hitherto in use. This valuable discovery has been highly approved and bonourably praised by MM. Dumas, Payer, Pelouse, de Bussy, Chevalier, &c., in France, and by MM. Chandellon, Nollet, Guillery, in Belgium. We hope to give some particulars of this invention in an early Number.

SALT .- We are informed, that a spring of brine has just been "tapped," by Mr. B. Smith, at Droitwich, Cheshire, at the depth of 217 ft.-being depth than any before discovered; the usual depth being 170 or 180 feet.

DISCOVERY OF COAL AT PARKGATE. -Some few months back a very valuable discovery of coal was made on the property of the Hon. Mr. Mostry, in this cality, and rich veins were ascertained to exist, but there was some doubt as lto the extent of them. With the view of ascertaining this fact, further operations were carried on, which have just been completed, and the result proves that the field of coal is of vast extent and richness. Considering the proximity of Liverpool and Birkenhead, and that the coal is on the Cheshire side of the River Dee, this discovery must prove of great public advantage, as well as profit to the honourable owner.

to the honourable owner.

On the Occurrence of Vanadium in the Refinery Slag of Staffordshifter.—Mr. Isaiah Deck, in a letter to the Chemical Gazette, says—"Being commissioned by an eminent English railway engineer, who has directed much attention towards the qualities of iron employed in bridges, &c., to examine some refinery slag, which, without any assignable reason, had the property of imparting extraordinary ductility to the iron with which it was mixed, I have succeeded in discovering a large quantity of vanadium, existing as silicate of vanadic acid, combined with small portions of molybdens, chrome, and the usual quantities of phosphoric acid and silicates. The first metal being confined to few localities, has had its properties but little studied by English chemists, and has hitherto been found in no other slag than that from the Taberg Mine in Sweden, the iron of which is remarkable for its ductility; and no mention is made of it in Dr. Percy's elaborate analyses of slags for the British Association. The quantity of slag at my command operated upon was very small; but the vanadium existed in a much larger proportion than in the Swedish slag, which I have since examined; and it is, doubtless, the cause of the superior ductility of both. In a short time I shall be enabled to lay before your readers the results of examination of a large quantity of the slags, as at present the analysis is the private property of the party employing me. The entire merit of the discovery does not rest with myself; and I am happy in this notice to bear testimony to the suggestions and superintendence of Prof. Wöhler, in whose well-appointed laboratory the analysis was performed."

Rallway Speed.—The limitation of railway speed, then, is not to be found

RAILWAY SPEED.—The limitation of railway speed, then, is not to be found in the width of gauge, but in other and different considerations, such as the strains to which it is prudent to submit materials—the same on every gauge—the local features of the railway (as its gradients, curves, &c.), the comparative freedom or otherwise of the line from trains (such as goods and mineral trains), necessarily travelling at low speeds. Thus, on the London and South-Western, a narrow gauge railway, the express trains have, during the last 12 months, been travelling at a higher rate of speed (by 1½ mile per hour) than those of the Great Western Railway from London to Exeter on the broad gauge.—From Messrs, Robert Stephenson and Lock's Report. Messrs. Robert Stephenson and Locke's Report.

CORNISH STEAM-ENGINES.

The number of pumping-engines reported for the month of June is 27—the quantit of coals consumed being 2544 tons, lifting, in the aggregate, 24,000,000 tons of water I fathoms high—the average duty of the whole is, therefore, 54,000,000 ibs. lifted I foot high by the consumption of a bushel of coal.—The following have exceeded the average:—

Mines.	Engines.	Length of stroke	Load in pounds.	Load per sq. inch. on pist.			Million lbs. lifted 1 foot by consump. of 1 bush.coal	Average quantity of water per min.
Great Work	Leeds's 60-in.	9.0	47,020	12.9	9.2	2668	57:2	218
	Trevenson's 80	10.3	85,520	12.7	3.8	2008	65.0	215
Carn Brea }	Sima's 50&90 }	9.0	57,392	22.8	5.0	1722	58.7	250
Andw.&Nang.	70-inch.	10.0	51,492	10.7	3.4	1234	58-7	207
United Mines	Taylor's 85-in.	11.0	97,108	15.5	6.0	3505	85.3	-
Ditto	Cardoza's 90-in.	9.0	99,468	13.7	6.6	4532	57.8)
Ditto	Eldon's 30-inch	9.0	13,631	16.0	8.1	626	66.7	>1832
Ditto	Loam's 85-inch	10.0	89,320	11.8	7.7	4768	54.9	1
Ditto	Hocking's 85-in	10.0	99,093	14.6	7.1	5134	58-2	•
Per. St.Geo. {	Sims' 60 & 100 }	9.0	90,279	28.2	7.2	4194	63.3	1267
East Wh. Rose	Penrose's 70 in.	10.0	58,288	13.6	4.3	1746	65.7	3 586
Ditto	Michell's 70 in.	10.0	62,699	14.6	3.8	1766	62-9	3 200
With Mann Class	69 Inch	0.00	903 %	0.0	8-C	1990	56-1	998

Mining Correspondence.

ASHBURTON UNITED.—Capt. J. Kernick (Aug. 7) reports—The ground in the 25 fm. level cross-cut, continues favourable for driving; the price is reduced 20s. per fm., and the end getting wet being very likely near the branches of the copper lode. There is no further alteration in the copper pitches. The tin pitches generally are being worked with spirit, and the tributers getting fair wages. We are dressing our tin against the next setting, and shall continue to do so monthly.

BARRISTOWN.—Capt. To Associate the continue of the company of of

tinue to do so monthly.

BARRISTOWN.—Capt. T. Angove (August 4) reports—The lode in the 16 fm. level end east is rather improved in its regularity, is about 2 ft. wide, composed of carbonate of iron, stones of lead, and blende; the adit end, east of the lode, is at present producing but a small quantity of ore—the lode is large, principally gossan; in the winze, sinking under the adit level, the lode is about 1 ft. wide, producing about 5 cwts. of lead per fm. We are cutting a plot at the 16 fm. level, in the flat-rod shaft, before we commence sinking the floor of the ground at the 16 fm. level—intersecting the lode has not materially changed it. The pitches are looking much the same as last reported.

BEDISCORD INITED.—Cant. J. Phillips (August 9) reports.—At Wheal

the ground at the 16 fm. level—intersecting the lode has not materially changed it. The pitches are looking much the same as last reported.

BEDFORD UNITED.—Capt. J. Phillips (August 9) reports.—At Wheal Marquis, the engine-shaft is 4 fms. 1 ft. under the 90 fm. level. The 90 fm. level west is holed to the 90 fm. level cross-cut south, and we are now engaged laying down tram-road; the lode in the 90 fm. level ast is 3ft. wide, and worth 16t. per fm.; the back of this level, east of Hodge's rise, has been set at a tribute of 3s. 9d. in 1t.; the stopes in the back of this level, east of the sumpwinze, are suspended for the time; the back of this level, east of the sumpwinze, has been set on tribute at 2s. in 1t. In the 80 fm. level east, the lode is 2ft. wide, producing saving work. Evans's winze is holed to the 80, and th western end set on tribute at 8s. in 1t.

Aug. 8.—The usual monthly survey of these mines has been made to-day, and all the labour cost for time paid. The shaft has been sunk 2 fms. 4ft. during the past month; the ground has been favourable; the cross-course is, however, now in it, but we hope this will not materially impede our progress. The 90 fm. level is holed. The levelling is proved to be perfectly correct. The cross-cut (from the shaft) measured 4 fms. 1ft., and the driving west (to meetit) 4 fm. 4in. The castern end, in the 90 fm. level, has been extended 1 fm. 5 ft. on the south side of the lode, and the lode cut into for about 3 ft.; it will yield 3 tons of good ore per fm., and is likely to improve. The setting for this month is 2 fms., at 10t. per fm., without obligation to cut through the lode. The 80 fm. level east has been extended 5 fms. 2 ft., and holed to Evans's winze; good tribute ground has been opened, part of which has been set at 8s. in 1t. The setting for the present menth is 3 fms., at 5t. 7 ms., and by four men, instead of six. These ends, with the shaft, comprise the whole of the tuwork bargains. The pitches set are as follows:—In the back of the 90 west, to 4 men, a

may fairly calculate on continuing our present samplings for many months, without touching any of the valuable ore ground below the 90 fm. level.—J. Walverson.

CARADON UNITED.—The agent (August 8) reports—We have driven through Morshead's lode, in the 38 fm. level; and find the main part of it is about 7 ft. wide, with several branches contiguous to it; including the whole, it is from 12 to 14 ft. wide; the lode is composed of gossan, soft spar, prian, flookan, portions of decomposed iron, and copper ore, &c.; in this place it is still connected with pot, or soft granite; and I have reasons to believe we are near the cross-course, as there is a large stream of water proceeding from the lode. I think it proper to continue the cross-course, which will give time for the water to drain itself, and, consequently, will save much timber; the ground in the south can be driven for about 5L per fm. The little copper lode, in the 28 fm. level, is just the same as when I last reported; there are still good portions of ore, and I have still reasons to believe these lodes will be productive in depth. As to our agreement for levels, it is for no longer than needed.

COOMBE VALLEY.—Mr. C. S. Richardson (August 8) reports—We are working on a fine vein of blue slate at the island, which fully keeps going all our cleavers and dressers. The six Welshmen we have from Carnarvon are much superior to any of our Cornish quarrymen; they save more slate, and make it much better. We are making all sizes, under ducheses. At Allshard Quarry we are opening more ground, over a fine run of slate, on the north side. Great returns will shortly be made from this quarry. We are sadly in want of more men and machinery.

CWM ERFIN.—Capl. S. Nicholls (July 29) reports—The engine-shaft is down 6 fms. The lode is not in the shaft as vet, but there are some strings of the same strings of the strings of th

Great returns will shortly be made from this quarty.

CWM ERFIN.—Capl. S. Nicholls (July 29) reports—The engine-shaft is down 6 fms. The lode is not in the shaft as yet, but there are some strings o ore in the country, so I think the lode is near. In the 10 fm. level east there are some spots of ore in the lode, rather improving from last week's report. The stope, east of whim-shaft, is worth 6 cwts. of ore per fm. The stope, 20 fms east of whim-shaft, is worth 6 cwts. of ore per fm.—The stope, west of the eastern shaft, is worth 5 cwts. of ore per fm.—Aug. 5.—The engine-shaft is down 7 fms., and the lode is still to the south of the shaft. We are not likely to meet with the lode until the shaft is down, and then we shall have a short distance to drive to meet the lode. The 20 fm. level, west of the whim-shaft, is just as last reported. The 10 fm. level, east of the eastern shaft, is looking more promising for ore than it has been for many fathoms. The stope, east of the whim-shaft, is worth 6 cwts. of ore per fm. The stope, 20 fms. east of the whim-shaft, is worth 6 cwts. of ore per fm. The stope, west of the eastern shaft, there has not been anything done this last week.

DEVON AND COURTENAY.—Capt. N. Secombe (August 8) reports—In

ern shaft, there has not been anything done this last week.

DEYON AND COURTENAY.—Capt. N. Secombe (August 8) reports—In our end driving west in the 40 fm. level, on the gossan lode, the lode is 2½ ft. wide, composed of killas, mixed with a great quantity of mundic; the ground continues to get more favourable for driving; there also appears to be a great change in the strata as we progress towards the great gossan pits in the wood. In our end, driving north on the slide in the same level, we have intersected a lode 2½ ft. wide, composed of small branches of spar, mundic, and ore, mixed with killas. I have put the men to drive east on a lode previously intersected, 3ft. wide, composed of mundic, peach, and spots of ore. Our 50 fm. level continues just the same as last reported. The pitch in the bottom of the 40 fm. level is also without much alteration.

DEAN PRIOR AND BUCKFASTLEIGH.—Capt. J. Carpenter (Aug. 2)

with killas. I have put the men to drive east on a lode previously intersected, 3 ft. wide, composed of mundic, peach, and spots of ore. Our 50 fm. level continues just the same as last reported. The pitch in the bottom of the 40 fm. level is also without much alteration.

DEAN PRIOR AND BUCKFASTLEIGH.—Capt. J. Carpenter (Aug. 2) reports—I have not anything very particular to inform you, relative to the lode in either of the levels, since the general meeting, held on the lat of May last, as our operations have been contined to the sinking of the engine-shaft under the 30 fm. level, as then agreed on. However, the few fathoms of the lode which have been developed, west of engine-shaft, continued nearly of the same character as then described—the north part being from 3 to 4 ft. wide, producing a great quantity of mundic, and some very good specimens of copper ore; in fact, what is generally called saving work, or stuff that will pay for cleaning the division, or what is commonly called a horse of killas, between the north and south part of the lode, is small going west—therefore, it is probable it will concentrate when proceeded with in extension, or depth; not having cut the south wall at this point, its exact size is not ascertained; however, I think it is large, although poor; but, from the appearance of the same part of the lode opened on in a winze under the 30, some 5 fms. east, or opposite the cross-cut, there appears to be a decided improvement; the lode at this point (2 fms. under the level) is 4 ft. wide, and a borer-hole has been put in, from 3 to 4 ft. deep; we have not yet discovered the south wall; the 30 fm. level has been driven east of the winze 6 fms.; the lode in the present end is rather confused, or divided by more killas than referred to going west, as has been in the upper levels—therefore, I am of opinion still, the lode will show a much stronger and better appearance in the 40 than it does in the 30. As Mr. John Paull was appointed to survey the mine with me to-day, I must refer you more

the matter at issue, to make it a concern of profit and magnitude, shall have my best consideration and attention, never doubting, from the great improvement from the 20 to the 30, but that the 40 will be something good to stimulate us on to greater exertions, as there is to be observed in the general character of the lode in the 50 so great an improvement in its composition that nothing but experience and practice could conceive, and it would fail my pen to describe.—Capt. H. Choake (Aug. 2) reports—We have cut into the lode in the winze under the 30, or bottom level, 4 ft. 10 in., and have also bored a hole, 3 ft. 6 in.; but have not discovered the south wall; the change in the lode us of a very encouraging nature, composed of harge masses of mundic, copper, spar, and some yellow ore; this shows the strength of the lode in going down. The engine-shaft is sunk below the 30 fm. level about 9 fms.; the strate at that depth holds out the most favourable indications—the shaft being nearly 9 fms. to the north of the lode. A decided change has taken place, both as regards the lode and strata; and it is reasonable to expect the most favourable results in the deeper levels; and the intended 40 fm. level will, at all events, be a criffsrion in coming under such a large lode—being so much deeper, and composed of such excellent qualities; therefore, we shall make all the progress we can to sink the engine-shaft to the intended depth, and to cross-cut to the lode, being so desirable an object.—Capt. H. Choake (August 9) reports—In cutting into the north part of the lode, near the west end, in the 30 fm. level, I find the lode to be composed of capel, and spangled with ore; being large, we have not as yet discovered the foot-wall. At the engine-shaft, the ground is of just the same nature as reported before. The water is much quicker. The depth of shaft, below the 30 fm. level, is 9 fms. 4 ft. 6 in.

EAST CROWNDALE.—Cuptain S. Paull (August 5) reports—The lode in Diamond's engine-shaft, at Rix Hill, as when last reported u

suspended till the engine and stamps were set to work.

GREAT MICHELL CONSOLS.—Capt. T. Richards (August 9) reports—
The lode in the 45, east of the sump-winze, is composed of mundic, spar, fluor, and capel, with a small proportion of copper ore—this level west is at present suspended. In the 35, west of the sump winze, the lode has a promising appearance, containing mundic, pench, and spar, with ore intermixed throughout—the ground is favourable for driving; in this level, east of the engine-shaft, the lode for the whole width of the end contains capel, spar, and mundic, with stamps of one in places.

stones of ore in places.

GWINEAR CONSOLS.—Capt. Hugh Stephens (August 5) reports—The engine-slanf: is a little barder than last reported. The 20 fm. end east is still promising, and ground favourable for driving, with more water than usual, so as to nearly dram the 10 fm. level, which shows the ground being hollow before it, and will enable us to sink in the level above to prove the ground. We have just cut the fode west of the slide, in the 29 fm. end west; but, not having got clear of it yet, I cannot say much of it. By the end of usxt week wesitall get the lode quite clear of the slide, at which time I hope to inform you of something better. The 10 fm. end east is kindly, composed of jack, mundic, and peach, with occasional stones of ore.

HOLMRISH—Captain William Lean (August 8) reports—The plot in the

and peach, with occasional stones of ore.

HOLMBUSH.—Captain William Lean (August 8) reports—The plot in the 132 is completed, and the diagonal shaft set to sink below that level at 182 per fm.; the lode in the 132 fm. level west is still divided into several small branches, composed of spar, mundic, and spots of copper ore. The lode in the 120 fm. level south is 4 ft. wide, composed of quartz, and will produce about 5 cwts. of lead per fm.; the lode in the stopes, in the back of this level, is 4 ft. wide, producing from 3 to 4 cwts of lead per fathom. The lode in the 110 fm. level south is 35 ft. wide, composed of quartz and stones of lead—saving work; the lode in the stopes, in the back of this level, is 4 ft. wide, composed of quartz and stones of lead—saving work; the lode in the stopes, in the back of this level, is 4 ft. wide, composed of full in the 100 fm. level south is 2 ft. wide, composed of spar, and at times large stones of lead—ground favourable, set at 45s. per fm.; the Flap-jack lode, in the same level east; is 2 ft. wide, composed of copper ore, mundic, spar, and blende, and is set at 31 los. per fm.; between 7 and 8 fathoms of ground was driven through on this lode last month; and we shall hasten it on as quick as possible to the east of the great cross-course. The 90 fathom level south is for the present suspended.

for the present suspended.

KIRKCUDBRIGHTSHIRE.—The agent (Aug. 5) reports—In the 50 fm. level, west of Stewart's shaft, we have cut the caunter this week in this end, or rather it has here fallen in with the lode going west; it has brought good ground with it, and the lode is much improved in appearance and size, with a good stone of lead coming in the middle of the end. The lode in the 40 end, west of Keith's, is much the same, only softer than last week. Keith's shaft is down 9 ft., and the men will now cut a tip-platt, before sinking further. The lode in the 30 end west is large, with a fine branch of ore in the bottom, yielding \(\frac{1}{2}\) ton per fm.; the lode in the winze, in the bottom of this level, has greatly improved, and is now yielding above \(\frac{1}{2}\) ton per fm. The lode in the 30 end, east of Stewart's, has been producing \(\frac{1}{2}\) ton per fm. also this week, and looking still more kindly as it goes to hill.

still more kindly as it goes to hill.

LEWIS.—Capt. S. S. Noell (August 5) reports—In the ground east the lode is 18 in. wide, at present unproductive. The lode is the 70, west of our sumpshaft, on south branch, is 6 in. wide, worth 5l. per fm.; the ground in the 70 south is more favourable than heretofore. In the 60 east the lode is 3½ feet wide, producing some tin, and very promising; the lode in the 60 east, on south branch, is 2 ft. wide, worth 5l. per fm.; in the same level west, on south branch, the lode is 3ft. wide, worth 30l. per fm.; ive have set a winze to sink below this level, at 2s. tribute, which is producing very good quality tinstuff, and hope to get it down against the cross-cut is in at the 70. The lode in the 50 west, on south branch, is 8 in. wide, yielding some good work for tin. The lode in the 40 east is 6 in. wide, worth 3l. per fm. All other places are much the same as when last reported.

LLWYNMALEES MINE.—Capt. Henry Francis (August 5) reports—The

LLWYNMALEES MINE.—Capt. Henry Francis (August 5) reports.—The 14 fm. level west is driving in a pretty good lode, containing a branch of ore, 6 in. wide, with nice spar and copper, intermixed with black-jack, about 10 in. wide; this level is now 6 ft. west from London shaft. We have finished the plat in the 14 fm. level at the London shaft, and are now prepared to sink under this level. The stopes over the 14 fm. level east, and under the 8 fm. level east, are looking well, the stuff broken from them will average about 14 cwts. of fead per fm. The 14 fm. level west has not looked so well for some time. The stopes in the bettom of the 14 fm. level west are now nearly up to the London shaft, with capital ore in them, averaging about 1 ton per fm., which will be made available when the London shaft is deeper. The 8 fm. level has cut another promising shoot of lead ore to the west; the ground has been disordered, but, from recent appearances, it is resuming strength, and will got into a good course of ore in 5 or 6 fms. driving. I think we can dress 12 tons of ore for the next month. The ore we sold yesterday weighed 17 tons 17 cwts., but, with reductions, it amounts to 16 tons 8 cwts.

MENDIP HILLS.—Capt. F. C. Harpur (Aug. 7) reports.—The lode in the

me, with reductions, it amounts to 16 tons 8 cvts.

MENDIP HILLS.—Capt. F. C. Harpur (Aug. 7) reports.—The lode in the 18 fm. level, south of shaft, is at present divided in two parts, the main branch being about 1 ft. 10 in, wide, composed of light coloured flookan, soft spar, iron, and small sprigs of lead near the foot wall; the ground continues rather hard for driving. In the slag department, I am glad to inform you, our operations fluring the past week have been favourable; we have several tons of slags prepared for the furnaces, and hope, if nothing interrupts us, to get a sufficient quantity, by the latter part of the present week, to keep us smelting some days.

SOUTH WHEAL MARIA.—Capt. G. Francis (August 10) reports.—The round in the south cross-cut continues much the same, and driving about 6 ft. er week. Should the lode continue its underlay to the 20 fm. level, as it does t the surface, we shall intersect the south lode some time in the present month.

SOUTH WHEAL TRELAWNY.—Capt. W. Jenkin (August 7) reports—We are still driving the cross-cut, west of Snell's engine-shaft, in the 30 fm. level, with eight men. We have met with a fard floor of clvan; they tell us they met the same strata in the adjoining mines, just before they cut the lode.

they met the same strata in the adjoining mines, just before they cut the lode. TRELEIGH CONSOLS.—Capt. W. Symons (Ang. 5) reports—Garden's shaft, below the 100, is sinking in the country. The 90, cast of ditto, cross-cut south to a branch which has been worked on above, In the 90, west of Garden's, the lode is 20 in. wide, with a small quantity of ore. In the 70, west of ditto, the lode is 10 in. wide, but very little ore. In the 60, west of ditto, the lode is 10 in. wide, with stones of ore only. In the 50, west of ditto, the lode is 2 in. wide, impregnated with ore, not to value. Wheal Parent engine-shaft, below the adit is amking in the country; the adit cross-cut, north of ditto, to cut Wheal Orphan lode.

Wheal Orphan lode.

WEST WHEAL JEWEL.—Capts Johns and Brav (August 7) report—In the 70 fm. level, west of Willams's cross-course, on Wheal Jowel lode, the lode is 3 ft. wide, with a very promising appearance, worth 8l. per fm.—drove last month, 1 fm. 3 ft. In the 57 fm. level, west of Williams's cross-course, on the same lode, the lode is 4 fact wide; this lode is improving in size and quality, worth 12l. per fm.; in the 57 fm. level east, on the same lode, the lode is 9 in. wide, not looking so well as when last taken down, producing stones of ore—drove last menth, 1 fm. 4 ft. In the cross-cut, in the 47 fm. level, we have cut the lode the western side of the cross-course, but cannot say much about the size or value until next report—drove south in cross-cut, 2 fms.; rose in the size, 3 fms. 4 ft. In the deep skit, west of Hodger's cross-course, on the same lode, the lode is 6 in. wide, producing stones of ore—drove, 1 fm. 4 ft. 6 in. In the 30 fm. level, west of Quarry shaft, on Tolcarne tin lode, the lode is 18 in.

wide, unproductive—drove, 2 fms. 0 ft. 6 in. The 12 fm. level, west of Quarry shaft, on the same lade, is suspended—drove, I fm. 4 ft. 6 in.; these men are put in the rise that we have set in the back of the 57 fathom level, on Wheal Jewel lode. In the deep adit, west of Quarry shaft, on the same lode the lode is 1 ft. wide, producing stones of tin—drove 1 fm. 3 ft. 6 in. The stopes that are working in the back of the 12 fm. level, east of Pryor's winze, on tribute, are worth 35L per fm.; the stopes that are working west of Pryor's winze, in the back of this level, are worth 36L per fm. Upon the whole, we think that our prospects are looking much better than they have for the last two years. WHEAL ANDERTON.—Capt. Carpenter (Aug. 8) reports—We have sold 13 tons 2 cwts. of tin, which has brought the following prices:—2 tons, 40L per ton; 2 tons, 36L 17s. 6d; 3 tons 3 cwts., 35L 5s.; 1 ton 15 cwts., 32L 10s., 2 tons, 31L 15s.; 2 tons 4 cwts., 20L 5s. The returns for the past quarter exceed those of the one preceding by 300L. We are altogether looking well, with good promise for the future.

WHEAL MARY ANN.—Capt. Peter Clymo. iun. (July 31), reports—The wide, unproductive-drove, 2 fins. 0 ft. 6 in. The 12 fm. level, west of Quarry

good promise for the future.

WHEAL MARY ANN.—Capt. Peter Clymo, jun. (July 31), reports—The lode in the 40 fm. level, south of Barratt's, is 2\(\frac{1}{2} \) ft. wide, and worth 14\(\frac{1}{2} \) per fm.; the stopes in the back of this level are looking well. The lode in the 30 fm. level, south of the shaft, is split in two parts, with a 5-ft. horse between; the eastern part is 2\(\frac{1}{2} \) twide, composed of gossan, can, and lead; we are driving on the western part, as, from its direction, we think it the main part, which is 1\(\frac{1}{2} \) ft. wide, and worth 4\(\frac{1}{2} \) per fm.; and we calculate, in about 2 or 3 fms. more driving, the both parts will again unite; the stopes in the back of this level are much as last reported. Pollard's shaft is sunk 11 fms. under the 30, and we have 3 ft. more to sink to get to the level of our 40, south of Barratt's.

WHEAL ASAR H—Cant_J. Sparge (August 2) reports—We have resumed.

are much as last reported. Follard's shalt is sunk 11 fms. under the 30, and we have 3 ff. more to sink to get to the level of our 40, south of Barratt's.

WHEAL SARAH.—Capt. J. Spargo (August 9) reports—We have resumed sinking Mayhew's shaft, in which the ground is avourable. The ground is the looby is much softer for driving; we have been giving 12 per fm. since we have been driving west, but our next setting will be for a less price. The western shaft, on the new lode, is sunk about 6 fns. from the surface; the clay-slate is of a blue nature, and much softer for sinking in the last 6 ft.; and we hope to intersect the lode, by the shaft, in the latter part of another week. The smiths 'shop, count-house, &cc., are nearly completed, and our surface work—such as raising stones, bringing up dends for the whim round, &c.—is completed. The men stoping in the 9 fm. level are breaking some excellent work for lead. We shall commence making floors for dressing next week.

WHEAL SOPHIA.—Capt. H. Luke (August 4) reports—We have put in penthouse, plat, soliar, hung tackle, and sunk the shaft 4 fms. under the adit—the ground much the same as when reported on by Capt. Carpenter; and, should there be no favourable change of ground, although, from the present appearance, we may naturally expect it, we shall be able to sink the proposed depth in about the time calculated. We have sunk through a branch of spar and solid stones of yellow ore, which no doubt will improve the lode when they come in contact.

wheal some stores or years ore, when no doubt win improve the rote when they come in contact.

Wheal Treelawny.—Captain J. Bryant (Aug. 8) reports—The ground in Phillips's shaft, sinking under the 62 fin. level, is much as last reported. The lode in the 62 fin. level, composed of spar, can, and lead, and worth 18t. per fin.; in this lavel south the lode is still improving, and now worth 6t. per fin.; the stopes, in: the back of this level, are yielding about 15 cuts. of lead per fin. The lode in the 52 north is 2 ft. wide, and worth 8t. per fin.; the stopes, in the back of this level, are producing a moderate quantity of ore. The driving of the 42 north is discontinued, on account of the ores, attle, &c., now in the level, and which will be drained in the course of a few days, after which it will be resumed; we are now in the back of this level, to communicate to the 32, where the lode is worth 9t. per fin.; the stopes, in the back of this level are very similar to my last report. The lode in the winze, sinking under the 32, is worth 8t. per fin. The ground in Trelawny's shaft continues favourable for sinking. The ground in the 52 and 22 fin. level cross-cuts is similar to my last report. At the north mine, the lode in the 30, north of Smith's shaft, is about 1 ft. wide, and producing some good stones of lead; in the winze, south of the shaft, the lode is 2½ ft. wide, and worth 7t. Per fin. WHEAL TRESCOLL—Capt. John Webb (August 5) reports—We started

cuts is similar to my last report. At the north mine, the lode in the 30, north of Smith's shaft, is about 1 ft. wide, and producing some good stones of lead; in the wiuze, south of the shaft, the lode is 2½ ft. wide, and worth 7L per fm.

WHEAL TRESCOLL.—Capt. John Webb (August 5) reports—We started our engine on Saturday last; she works beautifully steady, and every thing souns to go well: ahe forked the water, which was 3½ fms. in the shaft under adir, in 50 minutes. The quantity of coals, including what was used for drying the flues, was 4 cwts. Our operations for the next month will be chiefly confined to sinking the engine-shaft. We have enough tin-stuff at grass to keep our stamps going for three months.

WHEAL VINCENT.—Capt. J. Spargo (August 9) reports—We have an extraordinary change in driving the deep adit on the north lode; we have cut through a small vein that crosses the lode, nearly at a right angle, which altogether changes the nature of the lode; instead of tin work, it is composed of large stones of mundic, with spots of black and yellow copper; the lode is 2 ft. wide, underlaying about 2½ ft. in a fm., with a small fookan on the foot wall of the lode, and running about 10° south of west. In finding a large cross-course—back about 25 fms. from the present end—we discovered, in the bottom of the level, large rocks of mundic, of a splendid appearance, not more than 10 ft. or 12 ft. deep from the surface, which altogether indicates for copper in depth. We have commenced sinking our engine-shaft, to take the lode on the commenced sinking our engine-shaft, to take the lode on the commenced sinking our engine-shaft, to take the lode on the 20 fms. level, where there is every reason to expect something of importance. Our operations will be confined to sinking the shaft, and driving to cut the south lode; as, in sinking, we shall be proving the mine more effectually than driving shallow levels. I have set 3 fms. to drive in the deep adit, at 4L 10s. per fm., which will plainly show that the strata is

FOREIGN MINES.

FOREIGN MINES.

COPIAPO MINES.—The following mine report for April has been received:—

Copiapo, May 29.—Checo Mine.—A few days since I visited this mine, and found it exhibited a very encouraging appearance. One of the new ends that we started last month (the 35 fm. level, west of Harman's shaft) holds out great promise; indeed, we have a beautiful veil on of rich ore—say, 30 per cent., and about 9 in. wide. Should this continue to improve, as it has in the last month, we shall soon find it will be of no small benefit. The other new level, referred to in my last, is at the 12 fm. level, on the north lode; it has a pretty appearance, and produces some stones of ore, but, as yet, does not assist us much in the produce. The stopes in the back of the 12 are yielding exceedingly well, but we cannot expect them to do so long, being so near the surface; we are, therefore, sinking a winze from the 12 to the 20 fm. level; after which we shall be able to drive an end east, in the last-mentioned level, which will lay open some new and, I have no doubt, is producing some good ore, and looks very promising to improve greatly before another mont; the lode is 3 ft. wide, and has a metallic appearance throughout. The mine is, on the whole, greatly improved in the last month, although the increase in produce is very small; but it has this advantage, that the greater part of the produce for April has been broken in new ground, whereas the former produce was from old ground that has been laid open for years.

San Pedro.—In my last, I informed you that nearly all the stopes and old pitches had been worked away, without opening any new ground, and that it would require a few months to carry on exploring operations, before any increased produce could be expected. I also advised you, that we had started two new lovels on the north lode—the one in the 10, and the other in the 15 fm. level; in the former, we have a very rich vein of ore, 6 in. wide, of more than 30 per cent, for copper, and have great house of ore, 1 have great when t

load a cargo for account of the company.

NATIONAL BRAZILIAN MINES.—The agent's report (May 22) states—The proceedings in the Oceas mining department have been carried on in the usual manner, and sie perceivable alteration has taken place, although the gold return for the last 10 days is a little more favourable than quoted in the last report. The sink, and Oceanford's north stope, are the only two points from which any considerable quantity of productive stone has been had for some times; but we hope, by the end of the present week, that a full supply will be obtained from the several stepes laid open, but which are asspended for a few days, in order to complete the whire, new incline plane, &c., so that operations may be resumed at Collett's stope as speedily as possible. Produce from Cocaes from the 14th to 33d May, 8 mes. 0 oz. 5 cits. 32 grs.

Proceedings of Public Companies.

MEETINGS DURING THE ENSUING WEEK. MERTINGS DURING THE ENSUING WEEK.

THIS DAY ... Great Northern Railway—London Tavern, at Twelve.
Northampton and Ranbury Railway—offices, at Two.

TUESDAY ... Newry, Warrenpoint, and Rostrevor Railway—offices, at One.
Southampton Deck Company—Southampton, at Twelve.
Wednesday .. Kilkenny & Great Southern and Western R'way -offices, Twelve for One.
London and Westernister Bank—offices, at One.
THURSDAY ... South-Eastern Railway—London-bridge Station—at One.
Great Western Railway—Bistol, at One.
Great Western Railway—Listol, at One.
West Cornwall Railway—Listol, at One.
London, Brighton, & South Coast R'way—London-bridge-house Hotel, One
Cork and Waterford Railway—London Tavern, at One.
SAYURAY. ... Northern and Eastern Railway—offices, at One.

DEAN PRIOR AND BUCKFASTLEIGH MINING COMPANY.

DEAN PRIOR AND BUCKFASTLEIGH MINING COMPANY.

The two-monthly meeting of adventurers was held at the offices, 25, Fleet-street, on Thursday, the 3d inst., to receive the report and accounts of the mine. P. W. COURTENAY, Esq., in the chair.

The notice convening the meeting having been read, the purser submitted the accounts, which, having been audited by the committee, were passed.

The CHAIRMAN briefly observed, that the meeting had been called in accordance with the regulations of the company, under the Cost-book System, and a report from Capt. Carpenter, the superintending agent, would be read; the meeting would also have to determine on the course to be pursued with certain shares which had become forfeited, from non-payment of calls.

The report of Capt. Carpenter, under date the 8th inst., was then read, which will be found inserted under Mining Correspondence, whereupon Mr. C. Robins observed, that Capt. Carpenter, in his report, having referred to the inspection of the mine by Capt. Paull, he had merely to state, that such report was in his possession; but, having been made for a private party, he was only authorised to hand it over to the meeting on the payment of the expenses incurred (5l. 5s.).

The meeting having every confidence in Capt. Carpenter, and being no party to the inspection of the mine, or report of Capt. Paull, declined receiving the report on the terms proposed; and a resolution was accordingly carried, to the effect that Capt. Carpenter should transmit a supplemental report, more in detail, which will also be found in another column.

Mr. English, in reply to a question put by the chairman, stated that he had proceeded to the mine with the view of collating information for the meeting, and had only returned that morning. He had had an interview with Capts. Carpenter, Paull, and Sprague, as also with Mr. Robins, and the concurrent testimony of the parties afforded the strongest evidence of the improvement of the mine, from the alteration in the strata, in sinking the shaft down to the

Magneting separated.

A special general meeting was held on the 11th inst.,—Capt. P. COURTENAY, Esq., in the chair,—when the supplemental report of Capt. Carpenter, and that under date the 9th inst., from Capt. Choake, were read.—The question of the issue of the forfeited shares (20 in number), having been brought before the meeting, it was resolved, that the same be-re-issued, on the payment of the amount due on the respective shares, on or before the 18th inst.—There being noother business, the meeting adjourned.

GADAIR MINING COMPANY.

GADAIR MINING COMPANY.

At a special general meeting of adventurers, held pursuant to circular, on Monday, the 7th inst—G. W. Blanch, Esq., in the chair—the notice convening the meeting was read.

The accounts submitted at the previous meeting having been duly audited were submitted and passed, as also a statement of assetts and liabilities, from which it appeared, that a call of 3s. per share would be required, to liquidate the claims on the company.

The CHAIRMAN briefly stated the objects for which the meeting had been convened—that of passing the accounts up to the present time, and making as call, for the purpose of paying the same, and also taking such other measures as might be deemed expedient for the active prosecution of the mine, which, from the reports received, held out much promise; but the works had been retarded, in consequence of an arrangement agreed upon at the last meeting of adventurers, whereby the management of the affairs of the company was to have been removed to Manchester. That, however, not having been effected, he would suggest that a managing committee be at once appointed, who should remain in office for two months; and that meetings of the adventurers should be redefined for two months; and that meetings of the adventurers should remain in office for two months; and that meetings of the adventurers should be redefined as might appear necessary be made; and further, that no debts, or liabilities, be contracted.

A general conversation arose on the prospects of the mine, and the course to

lities, be contracted.

A general conversation arose on the prospects of the mine, and the course to be pursued, which terminated in the appointment of Messrs. Blanch J. Truscott, and H. English as the committee for the next two months—the meeting of adventurers being fixed for the first Tuesday in every alternate month. A call of 3s. per share was made, to meet the claims on the company, and a further call of 2s. 6d. per share for the next two months, to prosecute the working of the mine, it being understood that, in the interim, the committee would ascertain the nature and cost of machinery required, size of engine, &c., and re-

certain the nature and cost of machinery required, size of engine, &c., and report accordingly.

On the question being put as to the appointment of a purser, and also the necessary arrangement for the manangement of the affairs of the company in London, Mr. English proffered the use of his offices gratuitously for the next four months, as also his services as honorary purser, which offer was readily accepted, and thanks tendered to that gentleman for his liberal offer.

It appearing that certain shares were in arrear, or had not been taken up, it was resolved, that the shares of which the company was constituted should henceforth be 3540; and that, in case any shareholder should wish to withdraw from the undertaking, he should be at full liberty so to do, on payment of his proportion of the claims or debts due from the mine, estimated at 3s. per share, such course being in accordance with the Cost-book System. It was further determined upon, that the mine should be carried on with energy, and a strict adherence to the Cost-book System, whereby responsibilities are avoided, and the management of the affairs of the company placed in the hands of the adventurers, who, from time to time, may depute authority to a committee.

A vote of thanks having been carried to the chairman, the meeting separated, having passed a series of resolutions, which appear in our advertising columns.

RHOSWYDDOL AND BACHEIDDON LEAD MINES.

RHOSWYDDOL AND BACHEIDDON LEAD MINES.

The bi-monthly meeting of adventurers in the above mines was held, pursuant to circular, at the offices of the company, Old Jewry, on Tuesday, the 5th inst., when the following report of Capt. Davies, for the two months ending 29th July, was submitted to the meeting:—

Prosser's Level.—During the month of June the men cut the level further, in the east end, 14 yards along the lode. This cutting did not discover any fresh orey ground. Finding it so, I brought the men back to the great cross-cut they had been before driving, to go under the smuthy level; on this they have been working through the whole of last month, and are now continuing so. The ground is very stiff for a clay slate—the men having cut only 11 yards. The object of this cross-cut has previously been explained. In Webster's Cross 14 yards have been cut. The lede here continues very vide and strong. Strings of lead ore have been discovered in several places, but not the run from the field-shaft; this cross is not in a direct line, but part to the north, part cast, and after all this cutting, I am of opinion there is a part of the lode still further north but as the men were wanted for the present in the field-shaft, to open further over ground there, they were removed to that part which we now effit the 10 fathom level.

Field-Shaft,—The men have been working on an exceedingly rich piece of over ground; the length they stope is 10 yards—this is overy all the way. At times the lead is 2 feet wide, nearly solid, and cut in pieces as large as the men with difficulty can turn over. Before I have to send my next report, the men will have worked this stope up to the field-sheft. I have already anticipated this, and brought the men from Webster's Cross, to open a new piece of over ground.

Before I have to send my next report, the men was the most worker's Cross, to open a new piece of orey ground.

The Ten Fathom Level.—Here a set of men have been driving in the east end; the ground is hard, but is very promising, being the run from the shaft. The lead in the breast is nearly 2 feet wide, and is improving.

Simility Level.—During the last two months the ground was more favourable than otherwise for driving. The lode exhibits very favourable indications in the end; there is a fine flookan on the wall, and in the lode there is quarts, black-lack, and strings of lead.

Nant Level.—Having worked here in June, I must notice the result, which is quite the same as former months—the lead at times better, at others worse. On account of the same as former months—the lead at times better, at others worse. On account of the same as former months—the lead at times better, at others worse. On account of the same as former months—the lead at times better, at others worse. On account of the same as former months—the lead at times better, at others worse. On account of the same as former months—the lead at times better, at others worse. On account of the same as former months—the lead at times better, at others worse. On account of the same as former months—the lead at times better, at others worse. On account of the strong to the plans I laid down when in London) till the smillty level to come under.

We are taking ore out of the rough, and creating, but not dressing any; all the lead we now cut is brought out to near the mill, by rallway, through Prosser's level—there taken out of the rough, and wheeled to the mill at ence. We will find the cost of dressing very much diminished in the mode we have now adopted.

The accounts of receipts and expenditure, for the past two months, were laid upon the table; and, after some few observations of a congratulatory nature,

and expressing the satisfaction of the advanturers present with the operations at the mine, and the prospects it presented, the meeting separated.

WEST WHEAL MARIA MINING COMPANY.

At a general two-monthly meeting, held at the offices, St. Michael's-a ornbill, on Thursday last, the 10th inst.—C. Balley, Esq., in the chair,— Howing statement of accounts was produced:—

TRENANCE MINES COMPANY.

In the Journal of the 29th July, we gave a report of the meeting of proprietors, held at the offices on the previous Friday, in which reference was made to a lengthy communication, which had been received from the agent, detailing the present position and prospects of the undertaking. We have since received the following extracts from Capt. Dalton's report, for publication:—

July 26.—Before entering minutely into details as to the fature prospects of the mines, I beg to call your attention to the work which has been done since the last general meeting, what ground has been opened on in search of minerals, and to ascertain generally the metalliferons nature of these intherto unproved rocks, with the results thereof, from which some more decisive conclusion may be drawn, as to their prospects and future mode of operations.

It beg to call your attention to the work which has been done almot the last general generally the metalliferous nature of these hitherto unproved rocks, with the results thereof, from which some more decisive conclusion may be drawn, as to their prospects and future mode of operations.

H. January last, we had commenced sinking a winze (No. 1) from the 12 fm. level (Maria) to the level of the deep adit, and had, at the same time, commenced as south level from the deep adit (marked No. 2 on the plan) to meet it. The inducement which ied us to unwater this part of the mines, was the raising of a quantity of fine malicable copper and rod exide of copper, mentioned in the last general report. This winze has now been sunk to the depth of 10 fms., and the deep adit level driven about 15 fms., which has been by far the hardest ground worked in the mine; but, last week a decided change having taken place, we expect very shortly to furm the intended communication. Sample No. 1 was taken from this pitch.

It was particularly noticed, while sinking this winze (No. 1), that the ore passed, independent of its natural din as a lode, from a southerly to a northerly discetion. Consequently, by the time the winne was sunk 10 or 18 ft., the ore disappeared at the continual din as a lode, from a southerly to a northerly discetion. Consequently, by the time the winne was sunk 10 or 18 ft., the ore disappeared at the continual driving the level of the marked No. 3 on the plan), with a view of growing the ground, and getting the ore in the septimion as to the position in which the copper lodes may be found in the serpentine. In February last, we continued driving the level 12 fms. deep south of the Maria shaft (marked No. 3 on the plan), with a view of growing the ground, and getting the ore; but, after driving between 12 and 13 fms., and inding the outside of which we noticed two good walks, and the lode contained spars, steatile, growers, and crystalled dron, of which samples when the lode contained spars, steatile, growers, and

up 194 mms.; and, after taking up the body of one which laid at the commencement of it, or junction, we found, here and there, pieces of yellow ore, seemingly unconnected with any other substance; also iron and steatite, with two good walls. In appearance as if diverging from a centre.

In January last, we commenced the north level (No. 7 on the plau) from the deep adit, to be continued under the 12 fm. level (Dalton), to unvater the same to the depth of 29 fms.; and, in April last, we were induced to commence sinking a winze from the 42 fm. level, to communicate with the north level, just described. In the sinking of this winze, we have been delayed by a large supply of water, which, in May last, increased so much, as to oblige us to abundon the work during that month, and, on the let inst., we were again put out, from the same cause. Being desirous of having the communication formed between this place and the deep adit level before the present meeting took glace, I set on all the strength that could work at it, and succeeded in getting the water out, and keeping it down, but had not long resumed operations before another quantity Evoke in, and put the men all out again, though not before we had sunk nearly the required depth, and expect daily to have the water let down by the level which is driving nearly. This winze has now been sunk to the depth of 10 fms., during the sinking of which its very same appearances were observed, with respect to the northern dip of the winze, the last day it was worked, the sample (No. 3) of crystallised from.

The amount of ground broken since January last, we have since exacted a good substantial stone house, in which reside the captain and his family, so that the uniter and the since January last, we may add, that a riolent thunder storm having destroyed the house since January last, we may add, that a violent thunder storm having destroyed the house sive of many last, as they are constrained to the most important subject—wire. The first properties properties appearance which

yeardly appearing at the extremities, or where we may have supposed the heat to have been the least. My next reason, which is a practical one, is that in all the different please there we have here we have driven levels is search of copper ore, we have never yet met with a cantinuous lede, containing that metal; but, on the centrary, have found it either dipling down or running out, which latter has been generally indicated by the appearance of yellow ore, tending to show that the heat had not been sufficiently intense to drive off the sulphur contained in it. These appearances do not at ell prove the non-existence of copper lodes in the serpentine, but tend to confirm an opinion which I have long entertained, relative to the position in which they my exchibit flemselves in this rock, which brings us now to that part of the subject.

It was noticed, in the former part of this report (marked No. I), that in the Maria shaft sent lode, the one did not extend further than 3 ar 4 fms., and that, independent of its natural dips as lode, the summary passed rapidly down in a northward direction. The same appearances having been observed in the north part of the mises, and, indeed, where ever we have worked for ore, leads me to conclude (which is not an isolated case) that the one lies in the form of part of the sum to conclude (which is not an isolated case) that the one lies in the form of parts of the summary of t

dinest specimens ever raised in England; in precessings in depth (not extent) to 10 and 13 fms., in the same playe, we find much finer specimens, larger quantities of malleable copper, rich grey ore, pealechite, and yellow eves. In proceeding to the doubt of 16 or 17 fms., which can be a proved to the peace of the control of the contr

inst I have only endeavoured to discharge faithfully my duty, and I would take it as a particular act of attention, if any of the shareholders would come down, and Judge for themselves.—Richard Dalton, Purser.

TO THE PROPRIETORS OF THE ANGLO-MEXICAN MINT ASSOCIATION.

Gentlement and the prosperity of the Anglo-Mexican Mint Company, I regretted much that my absence from town on the 2d of May prevented my attendance at the annual meeting, when so flourishing a statement was given by the directors, and, what is better than directorial flourishes, so handsome a dividend was declared for the current year. But large dividends are not always tests of prosperity, as the present unfortunate position of the Mexican and South American Company—a company, in reality, under the very same direction—abundantly proves; and, having been informed by a friend of what passed at that meeting—for no annual report is ever printed or issued to the proprietors—and finding that he, like myself, required fuller explanations on certain points, I applied for such explanations, and have been refused them by the board of directors.

Now, it may be taken for granted, that concealment is never resorted to when there is no cause for concealment—in fact, there is no biped, except the ewl, that naturally loves darkness rather than light. It seems to me, therefore, quite necessary that the proprietors of this association should insist upon having a full and exact explanation of the state of the company's affairs. The reasonable information I required from the board of direction was as follows:

—1. The nature of the securities upon which 28,000L of the association's funds had been lent in this country?—2. The period when these moneys were to be repaid?—3. What portion, if any, had been lent to the Mexican and South American Company? As I have before said, the Mexican and South American Company as in reality, under the same system of direction and management as the Anglo-Mexican Mint. Both are scrip companies—both act apon the same rule of the

ASTURIAN MINING COMPANY.

ASTURIAN MINING COMPANY.

Sir.,—Will you be kind enough to allow me a little space in your next Number, to observe to "Nil Desperandum," who assumes that in my letter to you of the 27th July, I was "mfuenced by some motive beyond that of informing your readers of the state of the Asturian Mines," that so far was I from having any object, good or evil, "beyond that," I never had such an object at all. My purpose was, first to defend myself and my fellow shareholders against the unfounded imputation, that our reluctance to pay calls had prevented the directors "from displaying, to a greater extent, the value of the mines;" and, secondly, I wished to guard the shareholders against being deceived by the statement, that "it is expected no further call, beyond the one due in August, will be required." To repel the first charge, it was incumbent on me to show that a large capital had been placed at the disposal of the directors, a considerable portion of which had been shamefully misapplied; and that the dissatisfaction of the shareholders was increased by a disingeanous attempt to "hoodwink," instead of instructing, them, by a balance-sheet prepared on a fallacious principle. My avowed object, therefore, required me to recite faults and failures. These only were essential to my case; and they are virtually admitted by "Nil Desperandum," when he tells you "Detector" has "exposed nothing that was not openly communicated at the last meeting." Those favourable points which "Nil Desperandum" offers in extennation, were irrelevant to my case; and I should have "travelled out of the record," to have adverted to them. As to any concealment, or suppression, on my part, it is not only contrary to fact, but a misnomer and an impossibility. I have no power, even if so disposed, to conceal facts, which were communicated at a general meeting, published in your Journal, and printed and distributed to the shareholders. As well might I attempt to conceal the unin a cloudless sky—Leould shat my own eyes, but not those of others. The "

call will be required." To this already dissolving view, I must give a final coup de grace. I say then, that other calls must be made—the arrangement with the bankers making it imperative on the directors, in order to keep the balance due to them within certam limits. The bankers will say, "no song, no supper," or "no call, no credit."

I must beg to deny that I applied the term "dissolving views" ("Nil Disperandum" calls at funny) to the property of the company generally; I did apply it to the pretended assets. Mr. W., who is a good judge, told the directors to their face—mirabile dicts—that they were (it is quite shocking) meanings, when yet he (andecious man) was not impaled, cracticed, or even tarred and feathered. Moonshine, indeed! what a reflection on the Marquis of D., on whose solvability the value of some of the securities depends. The directors, having a good epinion of these assets, might, perhaps, do the shareholders the favour of declaring them to be a fund (sinking), on which they would, in future, charge the payment of their remuneration; and I should think there would be no very strong opposition to such a motion, particularly if the room be judiciously packed. Now, as to my "malignity"—what must "Nil Desperandum" think of Mr. W.? Perhaps, after all, the "head and front" of my offence—the fone st origi medi—may be traced to my wicked allusion to that notorious scheme—the "Royal North of Spain Railway." May I venture to ask "Nil Desperandum," if he was one of those who distinguished themselves by their zeal in blossing it as? If he formed one of that most illustrious party, I can easily account far his veration; and, at the risk of accreasing it, I shall conclude by saying—"Let the galled jade wince, my withers are unwrung."

Avgust 10.

THE ASHBURTON MINES.

THE ASHBURTON MINES.

Siz.—In your Number, of the 22d ult., is a letter signed "J. B.," dated Devenport, which would have had immediate notice from myself; but I took for granted Prof. Ansted would have done so. Finding, however, he has been called abroad, I cannot refrain from troubling you with my ideas on "J. B.\s," jumble—I say jumble, for it is evident his object is not to trouble-himself about his "friend's advice," ner indeed the Ashburten Mines at all; but, as one of the fraternity delighting in divining-rods and dark ways, considers the professor as one of a new generation (which, God knows, we want), and who would be likely to open our eyes, and teach men to look and think for themselves. It is but too evident, Sir, I say, that the worthy keight of the pick and gad—er, if he will be so called, "J. B."—merely takes that opportunity of spirting his dirty, but innocent, venom at the gentleman he has chosen to call a "good lecturer, but not a practical miner;" and than going on, he makes use of assertions which, if he knows anything at all of his would-be victim, he is well aware to be false; and, if he knows nothing of him, clearly groves his want of any claim to gentle blood or common decency. But, Sir, "J. B." does not show his "caution;" for, after making us wonder at his spontaneous assailments of a worthy man, he lets "the cat out of the bag," and tells us that the whole dirge of his little malevolence as, that a "pick and gedman," of the west has not been chosen to report upon the Ashburton Mines; and I do not for a moment doubt but our friend would like the chance, as he says, of himself and his worthy coadjutors undertaking "an inspection of all the anexplored mining districts of the United Kingdom" at the expense of London pocket; and I am sure I heartly wish the poor man suployment; but he must excuse us, if we do not have him solens volens.

I wish to show "J. B." that a pretty fair chance has been given to his Royal county by the employment of the very person he is so anxions to serve; but we

points equally objectionable which we have had to contend with; but I feer I have eitraded too far on your well-known patience.

Asy. 3.

A SHARKHOLDER IN THE ARBURTOS MISTER.

ASY.—In your Journal of the 22d July, an article is inserted, under the head of "Mining in Wales," signed "H. J.," wherein the writer condemus, without a word of explanation, all the mines, quarries, and mineral proparty in and about Dolgally, Merioneth. Now, it would have been much beiter, and farnear free truth, if he had said, this district abounds with mineral riches in almost every direction, and there never has yet been any mine tried in a programmer. But to say there are no madia, no good altat, and Merioneth is a profit three have been mad and overgrown wild speculations in the county, certainly is right; but when we find fault with others, we ought, at the same time, to be prepared to lay down a plan, whereby we may remedy the defects we complain of. Now, I do not know whether "H. J." is capable of doing this, but if he is not, I know of persons who are; and any Cornishman who goes into that county, and carefully examines it (as some rading captains lately have done), they will, and must, admit it presents to the speculation one of the most enticing been employed by a public company, in making a somewhat extensive array in Merioneth and Carnarvon, and, therefore, what I may now, or hereafter, say, is not imaginary, but from practical experience; and as the matter wary likely will be taken up, as it ought to be, by the people in the county, I shall say little at present, but merely hereby outline what may be the subject matter for future discussion, and what most assuredly will be, for many years to come, a wide field for speculation. Near Dolgelly, on the banks of a fine in very likely will be taken up, as it ought to be, by the people in the county, I shall say little at present, but merely hereby outline what may be the subject matter for future discussion, and what most assuredly will be, for many years to come, a wide field

SOUTH WHEAL BETSEY-PRACTICAL MINING

Sig.—When men attempt to penetrate into the causes of the various effects that come under their daily observations, while searching the bowels of the earth, they must, at all events, confess how weak and limited their understandings are. How vain would it be on my part to state to the public that I have discovered a rule that Nature hath laid down, so as to distinguish the standings are. How vain would it be on my part to state to the public that I have discovered a rule that Nature hath laid down, so as to distinguish the correct mode of discovering rich deposits of mineral. It is true, by lang experience in different mines and localities, we can, to a certain extent, predict the future results—that is to say, when a lode is opened at the surface, whether it has such properties as towarrant the outlay of capital to cut the lode to a greater depth; and whether the strata surrounding the lode is congenial for the expected mineral, whether it be copper, lead, or tin. Now, Mr. Edit or, I had not the least idea when I wrote the report of South Wheal Betsey for your insertion, a few weeks since, that I should again trouble you on the subject of cross-courses, heaves, &c. I do not know why your correspendent should be so anxious to have my reasons for believing a north and senth course crosses the lowe by an east and west one; but, as the question is so fairly asked. I beg to lay before you my positive reasons.—I. In the locality, or vicinity, of the above mine, there is no civan dyke crossing the lode, that I know of—2. The adjoining mine (Great Wheal Betsey) that hath been worked upwards of 50 years, was entirely confined to the same lodes, and no cause ever seen to expect that at would be hove in the sumb lode, that the statement made by that individual is wrong, we have cut a lode that is visible for Wheal Betsey, and can prove it to be one and the same lode.—4. To convince the public that the statement mode by that individual is wrong, we have cut a lode that is visible for Wheal Betsey deep adit, within 1 ft. 10 in., to our calculation, by our east cross-out, uswards of 200 fms. south from the point where the sleep adit answerced it; and, if the main lode takes its regular course, we shall shortly convince our op-

bonent of his error—that is to say, if he is not convinced already.—5. No practical man would ever be so imprudent as to assert, that a north and south course can be virtually hove by an east and west one, without an extraordinary cause, and then not effectually. However, I can only speak from my own experience. I have been a miner for 80 years—or, at least, ever since I was 10 years of age; 1 have been employed in the subterraneous caverns in Cornwall and Devon, during which time I have visited a great many mines; and the only north and south course that I ever saw affected by an east and west one, was that of Johnson's lode, in the Callington Mines. Here, it is true, then, Mr. Editor, permit me to state the cause of this extraordinary effect. I believe Johnson's lode carries a small flookan on the footwall; and the lode itself being a large champion, composed of mundic and black capel, or hornstone, and running through a soft clay-clate, and an elvan dyke crossing the north and south course, rather in an oblique direction, not many fathoms to the north of the point where Johnson's lode came in contact with it, here it is reasonable to expect, that the force of this champion lode, with the assistance of the elvan, had a tendency to dislocate, to a small extent, the north and south course; but, notwithstanding, it is not a complete heave. Now, Sir, whether those effects are produced by the polar forces, or by electricity, I leave to those who profess a greater talest than myself to explain. I do not wish to aspire after things beyond the bounds of my weak capacity.

In the Holmbush Mine, we see sufficient to astonish the greater and wiser of mei. Never was there a grander scene, if rightly looked into, than can be viewed there; there is a high hill of granite to the east, and a large elvan lying on the hard primary rock, and in the valley fields of clay-slate, for upwards of half-a-mile on the elvan or horblende rock. Wall's shaft, in the valley being sunk 100 fms. intersected the elvan; but this hard rock had,

We have to direct attention to the advertisement of the proposed smelling association, adverted to in our columns of late. The statistics there introduced will, doubtless, be conclusive as to the importance, indeed, the necessity, of some measure of the kind for the protection of the miner, whether at home or abroad. We have, in a leading article, adopted some of the figures introduced, with others pertaining to the subject, and, doubt not, but that it will be not only well canvassed by those interested in mines, but lead to communications from correspondents, and thus enhance the value to be attached to the question.

Budnick Consols.—A meeting of adventurers was held at the mine, on Monday last, when the accounts for May and Jnne were passed, as follows:—
To balance from last account, 2861. 15s. 3d.; costs, &c., 8531. 6s. 1d.; share of materials on relinquishments in March, April, and May, 1871. 15s. 8d. = 13271. 17s.—By ores sold (less dues), 8101. 5s. 2d.; carriage of tin, 15t. 1s. 5d.; = 8251. 6s. 7d.; balance carried to next account, 5021. 10s. 5d.—Out of this balance, 3561. 14s. 4d. have been paid on shares relinquished. The loss on the two months' working was only about 25t.

Condumnous — A meeting of adventurers and hald the loss of the Condumnous — A meeting of adventurers.

CONDURROW.—A meeting of adventurers was held at the mine, on Tuesday, the 8th inst., when the accounts were presented, showing—Balance due to pursr, end of May, 2711. 11s. 11d.; Labour cost, June and July, 7227. 9s. 6d.; merchants' bills, 2094. 8s. 8d.; dues of ore sold lat June (1-20th), 381. 18s. 7d.; ditto of tin sold to Angarrack Smelting Company, 5th Aug. (1-20th), 101. 7s. 4d. = 12521. 16s.—By ores sold lat of June, 7781. 12s. 2d.; tin sold 5th August, 2071. 6s. 6d.: leaving a balance of 2661. 17s. 4d.—The accounts were examined and allowed. We shall give the report in our next.

west Wheal Basker.—A meeting of adventurers was held at the mine, on Friday, the 4th inst., when the statement of accounts was presented, showing.—Labour cost for March, 771. 5s. 4d.; ditto April, 691. 1ls. 1d.; ditto May, 641. 5s. 7d.; ditto June, 681. 18s. 7d.; merchants' bills, 1471. 6s. 6d.—4271. 2s. 1d.—By copper ores sold, April 6, 9 tons 11 cwts. (less lord's dues, 3t. 10s. 2d.). 522. 13s. 7d.—leaving loss of 3741. 8s. 6d. The accounts were allowed; and, in consequence of several adventurers wishing to retire from this mine, it was resolved.—That the mine and materials be offered for sale by auction on the 28th inst., on which day a meeting of adventurers will be held.

MINING NOTABILIA.

[EXTRACTS FROM OUR CORRESPONDENCE.]

CARTHEW CONSOLS.—The operations here are progressing with activity, the 66-inch cylinder engine being in course of erection, and which is expected shortly to go to work. The slide has been cut through north in the adit level, and is found to hold well; the leader, which is orey ground, being about 6 in. wide—the lode being, on an average, about 2½ feet. The adit level is being driven, and the end looking kindly.

EAST CROWNDALE.—As promised you in my last, I have now to inform you, that the lode at Rix Hill has considerably improved since I last wrote; the south lode in the adit level is worth nearly 50L per fin., and the stopes, in the back of this level, are much richer than I expected to find them. There are two lodes now coming into Diamond's shaft, both of which are likely to unite very soon, at which junction there is every probability of a good course of tin. oon, at which junction there is every probability of a good course of tin.—
ther mines in the locality are looking just as last reported. Wheal Anderton,
liohing Rix Hill, is still very productive.

aujoining Rix Hill, is still very productive.

PENHALE.—We are progressing beyond expectation—the east and west lode discovered, which forms a caunter to the main lode, from which the large bodies of ore have been heretofore raised, has yielded from 3 to 4 tons of rich silver-lead ore by a "pare." The engine went to work on Saturday, last, and is doing its duty well, so as to enable the dressers to proceed at surface, having been precluded from so doing of late, in consequence of the want of water. There is a considerable quantity—say, 50 tons of ore at surface, which can be pencelled without washing, in addition to that in course of dressing for market; which, together, will make 100 to 110 tons. The ends are looking well, and large blocks of ore are in course of raising.

POLSAITH CONSOLS.—They are sinking a winge and rising to need it when

POLSAITH CONSOLS.—They are sinking a winze, and rising to rucet it; when is is holed, some tribute pitches will be set. The mine is looking extremely ell; and the adventurers may feel pretty confident that further discoveries

SOUTH MOLTON CONSOLS.—The engine at this mine will be set to work during the week; the ground in the shaft is reported to be favourable. As soon
as the 12 fm. level is drained, some fine branches of lead will be exposed to view.

as the 12 fm. level is drained, some fine branches of lead will be exposed to view.

SOUTH WHEAL BASSET.—The mine never looked so well as she does at the present time; the different ends and rises are worth 140L per fm. On Willama's lode alone, there is 2120 tons of ore discovered, which will make an average produce of 13 to 14 per cent. And the tin-stuff now raising on Carn Kye lode is worth 8L per ton in the stone, consequently, it must prove very rich for tin. In consequence of the low standard, they have not a tributer or man stoping on Williama's lode, but merely keeping the levels going and rising from one level to the other, for the purpose of ventilation; end. will, therefore, be prepared to come into the market advantageously, and give good dividends, when the price of copper is more remunerative.

TREHARE.—The bottom end going north is improved, and worth full 25 cwt. of one per fm.; and other parts of the mine is represented as improving.

WHEAL MARY ANN presents no important change, and they sampled 60 tons of ore on Friday last.

WHEAL TRELAWRY.—I have recently visited this mine and its locality:

WHEAL TRELAWNY,—I have recently visited this mine and its locality; the lode in the 62 fm. level north is 2 ft. wide, composed of can and lead, and will turn out 2 tons of ore per fm.; it is represented as the best lode ever seen in the mine; the lode in the 62 fm. level south, is yielding 7 cwts. of ore per fm. In the rise, the lode near the 42 end north, is worth nearly 1 ton per fm. In driving north of Smith's shaft, the lode is 1 ft. wide, very regular, but not rich; an improvement is expected here. The lode in the winze, under the 30 fm. level, is worth 10 cwt. per fm. The other parts of the mine at present are as usual. They purpose sampling 90 tons next week.

THE COPPER MINERS' COMPANY.

THE MINING JOURNAL,

THE COPPER MINERS' COMPANY.

In the Mining Journal of the 3d June last, we gave the particulars of a case (Lord e. Company) which had been argued on the pravious day, before the Vice-Chanceller's Kusurar Bucoz. The cause was again proceeded with, in the Vice-Chanceller's Court, on Monday last, when it appeared, that the bill had since been amended; and fresh demurers put in to the amended bill, for want of equity. The company was established by letters patent of August 3, other shareholders, except the defendants, alleged the ball of himself and all other attractions of the court of a sent and allotted to him 200 perpetual shares in the company, and that he are other shareholders, or corporators of the copartnership, became such shareholders, or corporators, on the faith and understanding that the capital stock of the co-partnership raisable (independently of an authority given to the court of assistants and a general meeting of the 6th of May, 1846) was limited to the sum of 650,000/, and that the court of assistants had no authority (except such authority as last aforesaid) to increase the capital stock of the copartnership beyond the sum of 650,000/. mentioned in their prospectus as the utmost amount of such stock; but that the court had, in excess of the authority in that behalf, increased such stock to a very great extent; and that, although the company had no power or authority whatever, without the consent and sanction of every individual shareholder or corporator, to convert any of the preferential shares, or any of the scrip certificates, into debentures, or promissory or loan notes of the company, yet the court of assistants had, previously to the 18th Oct., 1847, in excess of their authority, borrowed or raised divers sums of money of or from the defendants, the Bank of England was the owner and holder of, and had also advanced considerable sums to various parties on the security of divers debentures, or loan or promissory notes, scaled with the common seal of, or purporting to b

THE MAESTIG IRON COMPANY.

THE MAESTIG IRON COMPANY.

On Tuesday last, being the day appointed for the last examination of the directors, at the Bristol District Court of Bankruptcy, Mr. Sewell (solicitor to the flat) stated, that he appeared on behalf of the assignees, and several large creditors in London, for the purpose of applying to the Court to postpone the passing of the bankrupts, until sufficient time had been afforded the creditors to investigate the balance-sheet. If his Honour would cast his eye over the items, he would see that they not only comprised sums of great magnitude, but also that the transactions to which they referred were of a nature to require explanation. The bankrupts were iron-manufacturers, and, as such, their business was, not to buy, but to make and sell iron; but the claims of many of the principal creditors had been incurred on account of iron purchased by the bankrupts for credit, and sold by them almost immediately for cash. It would be seen, also, upon the balance-sheet, that large sums had been abstracted from the Maestig Iron Company, and paid over to another concern with which the bankrupts were connected, called the Vale of Neath Brewery; under these circumstances, he submitted that the creditors were entitled to an allowance of sufficient time to investigate the balance-sheet.

Mr. Spender, one of the bankrupts, craved permission to say a few words in support of the very reasonable application of Mr. Sewell, in which, on behalf of himself and his friend Mr. Wood, he entirely concurred. He considered that thee should be an adjournment for two reasons—first, because it was right that the creditors should have time afforded them to inspect and examine the accounts; and, secondly, because he and Mr. Wood were anxious to show the limited extent to which they had acquiesced in the transactions to which Mr. Sewell had referred. They were not at the time at all aware of the great amount of those transactions; and the moment they did become acquanted with them, they convened a meeting of creditors, laid

Ans Honour directed that a new onemers and the same period as the commencement of the balance-sheet, a statement of the transactions with the Vale of Neath Brewery Company, and a cash account of the dealings between the concern and the Maesteg Iron-Works, a separate account of the inspectorship of the latter works, and also copies of all mortgages, wills, settlements, &c., referred to in the separate balance-sheet. The examination was then adjourned.

The British Association for the Advancement of Science.—The eighteenth anniversary of the association commenced, at Swansea, on Wednesday last, under the presidency of Sir R. H. Inglis, Bart. This being the first of the meetings in the Principality, quite a sensation has been created, not only in Swansea and its neighbourhood, but throughout the whole of the surrounding counties; and every gentleman's mansion in the neighbourhood has been thrown open for the entertainment of the distinguished visitors. The different sections commenced holding their meetings on Thursday, and will continue them daily during the sitting of the association. Lectures also will be delivered on the "Metallurgical Operations of Swansea and its Neighbourhood," by Dr. Percy, F.R.S.; and on "Recent Microscopical Discoveries," by Dr. W. Carpenter. Excursions also have been planned to the interesting points of the sea cosst, the mining valleys of the interior, and the works and manufactories of the neighbourhood. As on previous occasions, we shall publish a copious digest of the proceedings—giving those papers entire which treat on subjects interesting to the readers of our Journal.

The Cholera.—The gradual, but steady, approach of this fearful plague

THE CHOLERA.—The gradual, but steady, approach of this fearful plague to our own shores, has naturally awakened a considerable degree of anxiety in the minds of all-thinking men. We are glad to percieve, however, that not only is the watchful eye of Government directed to the progress of this terrible malady, but that the subject of its character, causes, and treatment, is engaging the attention of science. We are given to understand, that a lecture will this day be delivered by Mr. Isham Baggs, at the Royal Polytechnic Institution, "On Cholera, and its Dependence on the Electrical State of the Atmosphere;" and, we are further informed, that such a chain of evidence will be established by that gentlemen, in reference to the connection of these two mysterious agencies, as to render our successful opposition to its further inroads a matter of extreme probability. It is our intention to be present at the lecture; and, if we are not disappointed in its issue, our readers shall be furnished with its details in the next Number of the Mining Journal.

Tressees Mine.—As Wm. Jenkin, aged 19 years, was at work in Tressees Mine.

Tressrean Mine.—As Wm. Jenkin, aged 19 years, was at work in Tressrean Mine, a stone fell from above and struck him in the neek; and, before any assistance could possibly be obtained, he was a corpse.

Pismonth Colliery, Merthyr.—T. Williams, aged 25, was killed by a fall of rubbish and a large stone in one of the coal-pits.

**Sherburn Hill Colliery, Durham.—William Thornton fell from the rope which was drawing him up the shaft, and was precipitated to the bottom, a depth of between 30 fms. and 49 ms., and was killed—one of his legs, as also one arm, were severed from his body.

**Colliery Accident.—As Wm. Williams, a hitcher at the Pentrefelin Colliery, Tircenol, Morriston, was engaged, on the 2d inst., in fastening some of the waggons used in the colliery to the platform, a stone, weighing about two pounds, fell from the roof on the back part of his head, and so injured him, that he expired on the same evening. He has left a widow and two children.

TO CAPITALISTS.—WANTED, THREE HUNDRED POUNDS, for securing PATENTS in FRANCE, BELGIUM, and HOLLAND, for several IMPORTANT INVENTIONS, about to appear before the public (for which English and Scotch patents have been secured). As the above sum is required within a few days, in order to secure these patents, the inventor is willing to sacrifice one-half the patent rights for the advance.—Application to be made on or before Wednesday next, to Mr. Weston, 5, Douro Cottages, St. John's Wood; or Mr. A. Campbell, 184, Fleet-Street.

TIMBER PRESERVING COMPANY.—(PAYNE'S PATENTS FOR THE PRESERVATION OF TIMBER AGAINST DRY ROT,
The above company are ready to ENTER into ARRANGEMENTS for the PREPARATION OF TIMBER, at any of their under-mentioned stations—viz.:
Whitehall Wharf, Westminster | Barnstaple | Guildford |
Fleetwood-on-Wyre | Barnstaple | Guildford |
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seir under-mentioned stations -- viz.:

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ary apparatus, wherever there is a com-Guildford
Southampton
Hartlepool
Darlington
considerable quantity And they will erect the necessary apparatus, wherever there is a considerable quantity of timber to be prepared.

Further particulars, with prices, may be obtained at the London Works, Whitehall Wharf, Caonon-row, Westminster.

PIDER'S RAILWAY BRIDGE.-TO RAILWAY COM-PANIES.—A PROSPECTUS of the above newly-invented IRON TRUSS RAIL-WAY BRIDGE will be FORWARDED, and CONTRACTS entered into, or LICENSES GRANTED for its ERECTION, on application to Mr. Moulton, Bradford, Wilts.

BIRMINGHAM, WOLVERHAMPTON, AND DUDLEY RAILWAY.—Notice is hereby given, that the next ORDINARY MEETING of the shareholders of the BIRMINGHAM, WOLVERHAMPTON, and DUDLEY RAILWAY COMPANY will be HELD at Dee's Royal Hotel, in Temple-row, Birmingham, on Wednesday, the 30th day of August, 1848, at Twelve o'clock at noom.

The transfer books of the company will be closed from and after the 21st day of Angust until after the day of the meeting.

Proxy papers, in order to be available, must bear a stamp of 2s. 6d., and must be received by the secretary 48 hours, at least, before the time appointed for the meeting.

WILLIAM MATHEWS, Chairman.

JOHN WILLIAM KIRSHAW, Secretary.

34, Benneit's-hill, Birmingham, August 9, 1848.

BRISTOL AND EXETER RAILWAY.—Notice is hereby given, that the next HALF-YEARLY GENERAL MEETING of the proprietors of this company will be HELD, in pursuance of the Act of Parliament, at the White Lion Hotel, in the city of Bristol, on Thursday, the 31st of August, 1848, at Twelve o'clock.

• The chair will be taken at One o'clock precisely.

The transfer books will be closed on Monday, the 21st of August, and not be reopened until after the said general meeting, on the 31st.

Bristol Office, Broad-street, August 3, 1848.

CALEDONIAN RAILWAY COMPANY-LOANS ON DEBETURES.—TENDERS OF LOANS ON DEBENTURE BONDS are now RECEIVED in sums of not less than £500, for any number of years not exceeding five. Interest to be at the rate of 5 per cent. per annum, payable half-yearly, in London, Edgburgh, Glasgow, or in any country bank. Tenders to be addressed to this office, giving full name and address of lender.—Partler may also communicate with Messrs. Foster and Braithwaite, 68, Old Broad-street, London. By order,

Caledonian Railway Office, Edinburgh, Feb. 25, 1848.

Caledonian Railway Office, Edinburgh, Feb. 25, 1848.

CALEDONIAN RAILWAY COMPANY.—Notice is hereby given, that the next HALY-YEARLY GENERAL MEETING of shareholders of the CALEDONIAN RAILWAY COMPANY will be HELD in Gibb's Royal Hotel, Edinburgh, on Thursday, the 31st of August inst., at One o'clock, afternoon, in terms of the statute. At this meeting it will be proposed to authorise the conversion into stock of the shares of the company, from time to time, as they shall be paid up in full, to reduce and restrict the inift, or £39 shares, and of the company, to quarter, or £10 los, shares, and to confirm the forfeiture of certain shares, and direct the same to be sold, or otherwise disposed of. Three will also be considered a motion, of which notice was given by Sir Andrew Agnew, Bart., at the general meeting of the 25th February last—riz. That no systematic or predetermined work be done on the Sabbath-day on the Caledonian Railway; and also an amendment to said motion, of which notice was given by Colonel Graham at the same meeting—vis.: "That when any proposition by any shareholder affecting the affairs of the company, or the management of the railway, shall have been decided by the vote of a general, ordinary, or special meeting, and by the proxy votes of absent shareholders, the same shall not be considered at any meeting of the company, except at a special meeting called for the express purpose, under the provision of the Act of Parliament."

The transfer books will be closed from the 18th to the 31st of Angust, both days and the company of the company, except at a special meeting 22, deorge-street, Edinburgh, Aug. 8, 1848.

J. H. JOHNSTONE, Chairman. 122, George-street, Edinburgh, Aug. 8, 1848.

J. W. CODDINGTON, Secretary.

MANCHESTER, SHEFFIELD, AND LINCOLNSHIRE
RAILWAY.—KIRTON TUNNEL.
TO RAILWAY CONTRACTORS, ENGINE BUILDERS, MILLERS, SEED CRUSHERS, COLLIERY OWNERS, AGRICULTURISTS, AND OTHERS.
TO BE SOLD, BY PRIVATE CONTRACT, FOUR NON-CONDENSING HORIZONTAL. STEAM-ENGINES, from 10 to 20-horse power, by excellent builders.
ONE 8-horse CONDENSING ENGINE, by Boulton and Watt.
A quantity of WINDING GEER, suitable for tunnel pits or collery work.—The engines and winding geer to be sold together or separately.
The above engines will be found in good working order, not having done much work, and are only to be sold to show completed for which they were erected.
Also, a quantity of TIMBER CENTREING, CLLLS, PLANKS, SKIPS, LORREYS, ROPES, and other MATERIALS and MACHINERY used in tunnelling.
To inspect the engines, &c., apply to the manager, on the works, at Kirion; and for

To inspect the engines, &c., apply to the manager, on the works, at Kirton; and for trither particulars to Mr. Stephenson, Rullway Office, Gainsborough, Lincolnshire. Railway Office, Gainsborough, Angust 1, 1848.

STEAM TO INDIA AND CHINA, VIA EGYPT.—Regular MONTHLY MAIL (steam conveyance) for PASSENGERS and LIGHT GOODS to CEYLDN, MADRAS, CALCUTTA, PENANG, SINGAPORE, and HONG-KONG.

THE PENINSULAR AND ORIENTAL STEAM NAVIGATION COMPANY OF A STEAM SERVICES FOR THE ABOVE POSTED by their steamers—starting from Southampton on the 20th; and from Suez on or about the 10th of every month.

For rates of passage-money, plans of the steamers, and to secure passages, apply at the nn or every month. rates of passage-money, plans of the steamers, and to secure passages, apply at the my's offices, No. 122, Leadenhall-street, London.

STEAMER TO INDIA, VIA THE CAPE, on or about the 20th AUGUST.—THE PERINSULAR AND ORIENTAL STEAM NAVIGATION COMPANY'S steam-ship MALTA, of 1200 tons, and 450-horse power, commanded by Captain SAMUEL LEWIS, is intended to start from SOUTHAMPTON for PONT de GALLE, Ceylon, on or about the 20th of August, 1848.

The accommodation for passengers is of a very superior description. Rates of passes, including table and wines, &c., to Galle, 70th, to Madras and Calcutta, 80f. The cabins are completely furnished, and linen and bedding, and all necessaries, are provided by the company. Passengers for Madras and Calcutta will be conveyed from Galle by the first of the company's steamers leaving that port after the Malta's arrival. The Malta will go out under canvas, using her steam only as circumstances may render necessary.—For plans of this vessel, and further particulars, apply at the company's offices, 122, Leadenhall-street.—London, July 29, 1848.

NIOTICE, TO SHIPPERS OF GOODS AND PARCETS.

NOTICE TO SHIPPERS OF GOODS AND PARCELS OTTUE TO SHIFFERS OF GOODS AND PARCEL'S per PENINSULAR AND ORIENTAL STEAM NAVIGATION COMPANY'S STEAMERS to INDIA and CHINA.—GOODS and PARCELS, sent direct to the cempany's Parcel-office, at or before 6 p.m. on the 17th of each month, are FORWARDED at less cost to the shipper than when sent through any intermediate channel. Cases must not exceed 112 lbs. weight each for Aden, Ceylon, Madras, Calcutta, and China; and 40 lbs. each case for Bombay. No package for India and China can, under any circumstances, be shipped at Southampton, unless it be cleared through the Custom-house, and placed alongside the steamer by noon on the 19th of each month. Detailed particulars can be obtained on personal application or by writing, —Parcel Department, 122, Leadyshall-street, May 13, 1848.

A P-WELDED IRON TUBES,
W. H. RICHARDSON, Jun., and Co.,
for Locumotive and Marine Bollers, Gas, Steam, and other purposes.
PATENT TUBE WORKS,
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BY AUTHORITY.

Published this day, in Two thick Parts, royal svo, with Sixty-three Plates (three coloured), and numerous Woodcuts, Vol. II., price 42s., cloth, or 21s. each Part, of the MEMOIRS OF THE GEOLOGICAL SURVEY of GREAT
BEITAIN, and of the MUSEUM OF PRACTICAL GEOLOGY OF LONDON.

Published by order of the Lords Commissioners of Her Majesty's Treasury.

RECENTLY PUBLISHED.

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Current Prices of Stocks, Shares, & Metals.

STOCK EXCHANGE, Saturday we Bank Stock, 9 per Cent., 197\$
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3 per Cent. Consols Ann., 86\$ 6
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3 per Cent. Ann., 87\$ 6
Long Annulties, 8\$
India Stock, 10\$ per Cent., 243 40
3 per Cent. Consols for Acct, 86\$ \$
Exchequer Bills, 1000£ 2d. 34 33 32 pm. Belgian, 44 per Cent., 67 Dutch, 24 per Cent., 434 3 Brazilian, 5 per Cent., 704 Chilian, 6 per Cent., 854 Mexican 5 per Cent., 164 4 Russian, 5 per Cent., 994 Spanish, 5 per Cent, 12 114 Ditto 3 per Cent., 22

MINES.—The mining share market has assumed a much better tone than for some time past; and, from the business actually done, and inquiries making, we may fairly anticipate further improvement during the forth-coming week.

Wheal Trehane is reported to have improved in the bottom level, and

170

wheat Trenane is reported to have improved in the bottom level, and several shares have consequently changed hands.

South Wheal Francis, and South Wheal Basset have been sought for during the week, but we do not hear of any transactions. Among the improvements advised by the official reports, may be noticed those of Bedford United, East Tamar, and West Wheal Jewel; the latter mine is represented to appear better than she has for the past two years. East Crowndales have been inquired for, and business done, at improved prices. Trethellan and Barrier are stated to have improved.

presented to appear better than she has for the past two years. East Crowndales have been inquired for, and business done, at improved prices. Trethellan and Barrier are stated to have improved.

Shares in the following mines are stated to have been done this week —viz.: East Wheal Rose, North Pool, Treviskey and Barrier, West Caradon, Trehane, Condurrow, Herodsfoot, Pennant, East Tamar, Gwinear Consols, Trelawny, Wheal Coad, Franco, Mining Company of Ireland, East Crowndale, West Wheal Jewel, Bedford United, Camborne Consols, Tin Vale, &c. Shares have also changed hands in Carthew Consols and Wheal Penhale, the reports lately received having considerably enhanced their value, and for which a demand exists at current prices.

The Hibernian Mining Company held their annual meeting on Tuesday last, with doors closed to all but shareholders. From the usual urbanity of the secretary, in matters of general business, we should consider this impolitic step arose from other authority. But we cannot conceive why such secresy should be observed, when the suppression of information has such an injurious effect on the disposal of shares; for mining property is like other stock—its value estimated by public opinion and competition. We do not know the cause for which the company deem it necessary to conceal the state of their affairs; but if the suppression of private Irish meetings had been extended to Austinfriars, we should have been prepared to report the proceedings of the company.

The West Wheal Maria Mining Company held their bi-monthly meetings and abandon the adventure.

The prospectus of the British Smelting Association, appears in our advertising columns to day. We understand that an influential board of

tions and abandon the adventure.

The prospectus of the British Smelting Association, appears in our advertising columns to-day. We understand that an influential board of directors will shortly be added, and trust that mining adventurers generally will render every assistance, by co-operation, in establishing an association so important to their interests.

By advices from Valparaiso, to the 31st May, we learn, that some important commercial changes were likely to take place. The Prime Minister of Chili had made a personal visit to the port; and, by a committee of merchants, appointed for the purpose, some considerable reform in the fiscal department was recommended. One of the proposed alterations was, "the reduction, or abolition, of the export duties on bar copper, and noon argentiferous ores, of a nature not amalgamable in Chili."

fiscal department was recommended. One of the proposed alterations was, "the reduction, or abolition, of the export duties on bar copper, and upon argentiferous ores, of a nature not amalgamable in Chili."

In foreign mines, several transactions have taken place in Altens, Bolanos, St. John del Rey, Asturians, Copiapo, United Mexicans, and Imperial Brazilians—for the latter, inquiries have been rather numerous at former quotations; but we are not apprised of many sales being effected.

The Asturian Mining Association continues to receive advices from the mines of the satisfactory and progressive advance of their iron-works, as well as their quicksilver. The returns, we understand, are increasing every week, and the iron made is of an excellent quality, and some sales have been effected at a remunerating price. Notwithstanding the heavy expenses to which the company have been hitherto subjected, it is the firm opinion of those deeply interested, that the property will ultimately become one of vast importance and profit.

The National Brazilian Mining Company have received, on the 7th, letters from the mines, dated May 22, which represent the operations at Cocaes as progressing most satisfactorily. The gold produced from the 14th to the 23d May was 8 mcs. 5 oits, 22 grs.

The Copiapo Mining Company received despatches on the 5th, advising up to the 31st of May. The Cuba, with 514 tons of copper ore, was to sail on the following day; and another vessel, of 350 tons, was expected to load in a few days. No vessels have arrived for some time past, in consequence of the loss of two chartered vessels on their outward voyage. Taking into consideration the fiscal arrangements in anticipation, both at home and in the country, as well as the depressed standard for copper ores, and being now in full expectation of an improved one, we hope the company will be advantaged by the misfortune. A report of the proceedings at the mines will be found in another column.

The following arrivals of specie have taken place since our last:—The Royal Mail Steam-Packet Company's ship Del, arrived at Southampton on Friday evening, from the West Indies, having on freight, in gold and silver coin, and dollars, &c., on merchants' account, value \$503,000; and also 78 lbs. of platina (\$364,000) were for the Bank of England. The Peninsular and Oriental Steam Company's ship Sulfan, arrived at Southampton on Saturday, the 5th inst., from the Mediterraneau, having on freight 429 packages of gold and silver coin, to the value of 230,000. sterling, and one box of jewels, value 2000. The Peninsular and Oriental steamer, Madrid, arrived on Sunday evening at Southampton, from the Italian ports, having on freight eight boxes of specie. The Niagara Royal Mail steam-ship arrived at Liverpool, on Sunday, from New York, having 1500. in specie only on freight.

1500l. in specie only on freight.

RALWAYS.—A very considerable depression took place in prices yesterday—the imnediate cause of which is the reduction in the dividends by some of the leading lines, which is producing an influence on opinion considerably beyond the intrinsic value of the difference. The declaration of the dividend, at the meeting of the London and North-Western Company, being reduced to 3½ per cent, or at the rate of? per cent, per annum, produced a considerable sensation, and sent the shares down 4 or 5 per cent. The idea that had been for a long period attached to this line—that it would permanently support a dividend of 10 per cent. on the capital invested—has had much more influence than the decrease merits, bocause it is quite clear that i. is, to a considerable extent, caused by the expenditure upon new branches and extensions not yet become productive. The holders in that, and similar undertakings, should, therefore, be cautious, and not throw their property away under the influence of a panic, which there are always parties ready to foster and sustain for sinister purposes.

HULL, THURSDAY.—The share market remains almost without alteration—North British thirds have given way, in consequence of another call. Kingston Cottons have changed hands at 48f. dis.; the demand for this stock is rather active, the low price it at present commands.

Name of Railway.	Lgth. Rway.	Present ac- tual cost.	Price per share	Last Div.	Traffic 1848	Returns 1847
Birkenhead, Lancashire,& Chesh.	15	997,284	37	5 p. c. *	£924	808
Caledonian	130	3,594.470	241	-	6028	-
Chester and Holyhead	594	2,871,470	26	-	-	-
Dublin and Drogheda	85	754,529	281	-	853	1024
Dublin and Kingstown	72	473,282	_	6	1109	1423
Dundee, Perth, & Aberdeen June.	47	415,073	26	8	1337	1180
East Anglian (Lynn to Ely)	551	1,062,742	61	-	620	
East Lancashire	26	1,733,915	17	-	1353	1258
Eastern Counties and Norfolk	295	9,833,859	141	4	16110	15478
Eastern Union	511	979,926	20		1335	1177
Edinburgh and Glasgow	53	2,481,767	38		4563	4258
Edinburgh and Northern	29	1,392,092	174	4*	2745	4200
Blasgew, Paisley, and Ayr	641	2.097,321	70	6	2546	3090
Glasgow, Paisley, & Greenock	23	845,554	15	4	1471	1424
Gt. Southern & Western, Ireland	1104	1,809,787	254	4.	3822	1696
Freat Western	2814	10,970,636	84	7	23610	24043
Kendal and Windermere	101	169,888	23		226	229
Lancaster and Carlisle	70	1,395,193	53	4	2549	1600
ancashire and Yorkshire	1365	7,597,618	86	7	12356	10938
London and North Western	428	21,513,354	120	8	50179	49323
ondon and Blackwall	4	1,241,061	47	12	1255	1502
ondon, Brighton, & South Coast	1611	6,087,822	298	4	12990	13501
London and South-Western	189	6,264,164	45	8	11178	11892
ondonderry and Enniskillen	144	145,185	16	-	154	160
fanchester, Sheffield, & Lincolnah.	62	2.836,624	60	5	2907	2255
daryport and Carlisle	28	440,851	40	-	636	760
didland Company	422è	9,853,122	99	7	25128	22603
Midland Great Western (Irish)	364	725,332	104	4.	912	1002
Sewcastle and Carlisle	664	1.407.375	109	6	312	667
North British	81	2,800,748	212	5	3072	2806
Scottish Central	33	*1000,140		0		2800
hrewsbury and Chester	17	780,272	228	-	1168	509
outh Devon	501	1,609,071	14	-	780	
outh-Eastern	1654	6,932,181	18	-	1894	1172
aff Vale	38		24	61	11227	11663
Uster	36	820,056 684,684	125	54	1763	1560
Whitehaven Junction	12		454	4		755
ork, Newcastle, & Berwick	2424	147,095	7	48	198	272
	2304	4,466,526	308	9	13607	11386
* Interest.—Total for last week,	200	3,799,297	65	10	9978	8731

PRICES OF B	CINING SHARES.
Shares, Company, Paid, Pric	BRITISH MINES—continued. Shares. Company. Paid. Pri
Shares. Company. Paid. Pric 1000 Abergwessin 7 -	6. Shares. Company. Paid. Pri
1024 Alfred Consols 4f 5	256 Sth. Friendsh. Wh. Ann 20 4 200 South Harvannah 10 25
1000 Antimony and Silver- Lead Mining & Smelting 5 6-	256 South Molton 5 8 256 South Tolgus 10 30
1 1094 Ashburton United Mines 72 10	198 South Wheel Busset 110 110
1624 Balleswidden 9 18 128 Balnoon Consols 25 25 10000 Banwen Iron Co 6 6	256 South Wh. Belsey 2‡. 12 124 South Wh. Frances 160 200 1000 South Wh. Maria 2‡. 1
10000 Banwen Iron Co 6 . 6	1000 South Wh. Maria 24 1
1000 Barwen from Co	10000 Southern& Western, Irish 2 4 280 Spearne Moor 30 40
8000 Blaenavon 50 17	94 St. Ives Consols 320
120 Brewer 5 7	128 St. Michael Penkivel . 5 . 10
- Ditto ditto, scrip 10 13	999 St. Minver Consols 1 6 1000 Stray Fark 43 15 9600 Tamar Consols 3 5 1024 Tavy Consols 4 8 6000 Tincroft 7 5
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128 Callestock	
20000 Cameron's Steam Coal 6 - 1	128 Tokenbury
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256 Caradon Wh. Hooper 21 10	5000 Treleigh Consols 6 2: 2000 Trenance 3 18
256 Caradon Wh. Hooper . 21 . 10 1000 Carn Brea 15 . 924 3000 Carthew Consols 14 . 5	96 Tresavean 10 210 120 Trethellan 5 . 12
2048 Cascade	120 Treviskey and Barrier 130 - 90 288 Trevean
2048 Cascade	100 United Mines
128 Comfort 45 50	256 Wellington Mines · · · 15 · · 10 128 West basset · · · · · 45 · · 10
2560 Cook's Kitchen 14 2	256 West Caradon 20 100 128 West Cargoll 2 . 12
2560 Cook's Kitchen 12 2 1000 Coombe Valley Quarry 3 4 6500 Cornish Mining Co. 2 22 4 1 1000 Copper Bettom 12 62 1024 Cosheen 42 20 225 Craddock Moor 165 5	512 West Fowey Consols 40 . 15 256 West Providence 9 . 12 200 West Seton
1024 Cosheen	- West of Scotland IronCo. 210 210
125 Creek Draws	120 West Trefhelian 5 30
500 Cubert Mine 121 10 1000 Cwm Erfin 31 31	512 West Wheal Frances 18. 9
300 D Prior & Buckfustleigh 14 26	3725 West Wheal Jewel 11 14
7100 Derwent	2560 West Wh. Maria 3 1 256 West Wheal Toigus 214 7
i000 Dhurode 2 5 186 Dolcoath 30 15	
2560 Drake Walls 4 4	1 184 Wheat Adams 51 10
10000 Durham County Coal. 45 9 3000 Dyingwm 10 124 512 East Alvenney 54 124	1000 Wheal Agar 8 256 Wheal Albert 10 1 256 Wheal Allen 2 5
112 East Caradon 4/ 4/	240 Wheal Anderton 23 23
2048 East Crowndale 54 24-3 512 East Combe Silver-Lead 64 64	512 Wheal Anna Maria 64 . 8
The Asias A Col	120 Wheal Bal 54 20
9000 East Tamar Consols f 4	2560 Wheal Barbara 12 4-5 256 Wheal Benny 12 7
100 East Relistian 22 40 9000 East Tamar Consols 4 4 East Wheal Albert 1 3 94 East Wheal Crofty 125 280 1024 East Wheal Fortune 2 3 1024 East Wheal Firendship 3 34	256 Wheal Blencowe 21 5 256 Wheal Bucketts 20 5
1024 East Wheal Friendship 3 31 128 East Wheal Rose 50 800	136 Wheat Clifford 190 50
- East of Scotland Iron Co. 24. 14	968 Wheal Courtenay 194. 15
123 East Wheal Seton 14 10 256 Elborough 14 2 256 Exmoor Wh. Eliza 4 6	6000 Wheal Curtis
512 Fowey Consols 40 45 6400 Gadair 2 2	388 Wheal Franco 27 15 128 Wheal Harriet 50
	256 Wheat Jane 21 15 1024 Wheat Lawrence 22 6
4000 Gen.Mining Co.for Irel. 1 1. 1 1 2048 Georgia Tin Mines 1 1 1 2048 Goldscope Mine 2 2	956 Wheal Louisa 84 . 8
256 Gonainena 34 8	112 Wheal Margaret 79 250 512 Wheal Mary Ann 5 121 237 Wheal Mary Consols 421 5
128 Goonvrea	
2560 Great Michell Consols 11., 3 256 Great Resugga Moor 11 6	210 Wheal Prospect
512 Gt.Wh.Rough Tor Con. 174. 20 100 Grogwinion 5 —	99 Wheal Seton 214 700
256 Gwinear Consols 7 3 6000 Heignston Down Con 2	194 Wheal Sisters 32‡ 12 512 Wheal Sophia 3 5
256 Herodsfoot 18 284	128 Wheal Spearne
239 Hobb's Hill 6 3	550 Wheal Trescoll 2 10 260 Wheal Trelawny 72 60
1000 Holmbush 19 4 827 Kirkcudbrightshire 5‡., 2	
2048 Lamherooe Wh. Maria 11 4 128 Lelant Consols 90 60	92 Wheal Tryphena 140 265
160 Levant	242 Wheal Venland 291 30 256 Wheal Viow (Perranz.)
1000 Liwyn Malees 5 ·· — 3600 Llynvi Iron 50 50	256 Wheal Viow (Perrang.)
256 Lostwithiel Consols 15 15 6000 Marke Valley 10 2	FOREIGN MINES.
5000 Mendip Hills 21 2	5000 Alten Mining Company 141 21 15000 Asturian Mining Co 13 21
5000 Merionethshire Slate 3 11. 2 & Slate Slab Co 34 . 133	20000 Australian 2 . 2
20000 Mining Co. of Ireland 7 4	10000 Anglo-Mexican Co100 1 12374 Ditto Subscription 25 24 6000 Barossa Range 1
128 North Fowey Consols 37 10	3000 Bolanos
100 North Pool 45 . 350 140 North Roskear 5‡ . 155	
256 North Wh. Abraham - 1 1 262 North Wh. Leisure 1 2	10000 Cobre Copper Co
5000 Northern Coal Co 23 2 128 Par Consols 1000	10000 General Mining Ass'n. 20 · 111-12 5000 Kinzigthal Mining Ass. 2 · · 3
4000 Pennant	
1230 Perran St. George Un. 13 20	2000 Mexican & South Amer. 8
128 Perran Wh. Virgin 9 10 512 Plymouth Wh. Yeoland 6 20 956 Polesith Consols	29320 {Rl.del Monte, regis. } 28\$ \$-\$
oood milyminey from oo 10	Ditto Red Debentures 4
1000 Rosewall IIIII 1 5	Ditto Black ditto 3 Ditto Loan Notes150 26
256 Rosewarva Mines — 12 3072 South Callington Mine 2	7000 Royal Santiago 10 5 11000 St. John del Rey 15 7 43174 United Mexican Av. 28 3
128 South Caradon 10 400	43174 United Mexican Av. 284 34
LATEST CURRENT	RICES OF METALS.

LATEST CURRENT PRICES OF METALS.

	£	8.	£	8.	d.	£ 8. £ 8.	-
Bar α Wales ton	5	15-	- 6	0	0	COPPER-Ord. bottoms 0 0- 0 0	1
London	0	0-	- 6	.15	0	YELLOW METALSHEATHING 0 0-0 0	7
Nail rods	0	0-	- 7	15	0	TIN-Com. blocksgcwt. 0 0 3 15	
Hoop(Staf.),	8	12 (6 8	15	0	bars 0 0- 3 16	
Sheet ,,	9	10-	- 9	15	0	Refined 0 0- 3 19	
Bars	0	0-	- 8	10	0	Straitsh 0 0- 3 14	
Welsh cold-blast?		10-		-	0	Banca 0 0- 4 0	
foundry pig 5	0	10-		0	. 0	TIN-PLATES-Ch., ICi, box 1 8- 1 10	
Scotch pig b, Clyde	0	0-	. 2	6	0	" IX 1 14- 1 16	
Rails, average	0	0-	- 6	0	0	Coke, IC 1 5 6 1 6	
Chairs	0	0 -	- 4	0	0	" IX 1 11 6 1 12	
Russian, CCNDc	0	0-	17	0	0	LEAD-Sheet &ton 0 0-17 0	
" PSI	0	0-		_		Pig, refined 0 0-18 0	
., Gourieff	0	0-				common 16 0-16 10	
Archangel	0	0-	13	0	0	" Spanish, in bd. 0 0-16 10	
Swedish don the spot	11	5-	11	10	0	Red 0 0-18 10	
Steel, fagt.	0	0-	15	0	0	Dry White 0 0-23 0	
, kegse	0	0-	13	10	0	Shot (Patent) 0 0-19 10	
COPPER-Tilef	0	0-			0	SPELTER-(Cake) on spot 15 0-15 10	
Tough cake	0				0	for arrival 0 0	į
Best selected	0				0	Zinc-(Sheet) m export. 21 0-22 0	
Ordin, sheets, 16	0					QUICKSILVER A	

REMARKS.—The prices of all metal ABBARANG.— The prices of all metals remain as quoted last week, except spelter, which has advanced about 10s, per ton, in consequence of the expected blockade of the Elbe, &c. The Dutch East India Company have given notice of offering for sale at Rotterdam, on 29th inst., 85,000 slabs (about 2600 tons) of banca tin—viz.: 40,000 there, and 45,000 at Amsterdam, in lots of 1000 slabs each, with an undertaking to make no further sale either in Holland or at Java till August, 1849.

DUDLEY, August 11.—The differences between the ironmasters and the men, on the subject of wages, are, I am happy to announce, in course of satisfactory adjustment. A the preliminary neeting of the ironmasters, at Stewponey, whereat the reduction of price was resolved upon, it was deemed essential that the wages of the man should be reduced 2) per cent. This was acceded to by a number of the men in one district; whilst in another a large proportion of them stood out against it. Matters are now, however, in such a state, that existing differences will, most likely, be soon at an end. In the important district, south of this town, it has been arranged, that the men's wages shall be reduced only is per cent., in consequence of the improved state of the trade—the ironmasters not caring to take more orders at the present prices. At the collibries, the price of coal to the iron-works alone has been reduced is, per ton, and slack 6d.

GLASGOW PIG-IRON TRADE, August 10.—There has been a great want of activity nour pig-fron market this week—little inclination shown either to buy or make sales. he price seemed a shade easier to-day, and we quote the price of mixed Nos. at 44s. 6d 45s.—cash.

EXPORTATION OF THE PRECIOUS METALS.—The following are the official returns of the exports of gold and aliver from the port of London for the last week:—Gold coln to Rotterdam, 1100 conces; ditto to Harlingen, 216; ditto to Swan River, 147; ditto to Aussterdam, 108; ditto to Calais, 180—Silver coin to Rotterdam, 200,000 conces; ditto to Ramburgh, 13,000; ditto to Belgium, 2000; ditto to Rotterdam, 247,400; ditto to Hamburgh, 37,400;

NEW PATENTS.

NEW PATENTS.

D. Mackenzie, Goodman's-fields, manufacturer, for certain improvements in Jacquard machinery for figuring fabrics and tissues generally, and apparatus for transmission of designs to said Jacquard machinery, parts of which are applicable to playing masical instruments, composing printing types, and other like purposes. (Being a com.)

D. Newton, Maceleafield, Chester, merchant, for certain improvements in the application of glass and glased surfaces to nantical, architectural, and other similar purposes.

S. Thornton, Birmingham, merchant, and J. E. McConnell, Wolverton, Backinghamshire, engineer, for improvements in steam-engines, and in the means of retarding engines and carriages on railways, and in connecting railway carriages or waggons together; also improvements in effecting a communication between one part of a railway train and another, by signals or otherwise.

J. Metcaif, Little Bolton, Lancaster, machine maker, and R. Halliwell, of the same place, mechanic, for certain machinery or apparatus for preparing and spinning cotton and other fibrous substances.

M. Poole, London, gentleman, for improvements in the manufacture of casks and other similar vessels of wood. (Being a communication.)

S. Lees, of the firm of H. Lees and Sons, Park Bridge, Lancaster, iron manufacturer, for certain improvements in ascholders.

W. T. Henley, Clerkenwell, philosophical instrument maker, and D. G. Foster, Clerkenwell, aforesaid, metal merchant, for certain improvements in telegraphic communication, and in apparatus connected therewith, parts of which improvements are also applicable to the moving of other machines and machinery.

DESIGNS FOR ARTICLES OF UTILITY REGISTERED.

DESIGNS FOR ARTICLES OF UTILITY REGISTERED.

T. B. Clark, Lawrence Pouncy-lane, London, a direction label.

J. Brown, Sheffield, conical spring for railway carriages made of round, square, oval, nexagon, or octagon steel.

J. R. Grover, Castle-street, Holborn, letter paper.

C. Fwigz, Birmingham, a sewn-through shank papier maché button.

Robinson and Fussell, Mill-Wall Works, Popiar, wrought-iron railway wheels.

T. Porter, Strand, shirts.—Mechanics' Magazine.

LEAD ORES.

				 _		_	_	_	_	Sole	d	a	£	46	Min	e.					
Mine									7	bne.					1	pri	ce.			Purchasers.	
East Wheal	Rose		+ 0	 				0 0		87					£10	1	1			Newton, Keates,	& Co.
ditto																					1
ditto	** **	**	• •												9					ditto	
					T	ot	al	ŧ	on	8								243	2.		-
									8	Sold	a	t.	Al	ber	rystw	ith				2 111	
Llwynmalee				 																Mather & Co.	1

BLACK TIN.

Sold at Mellar	near Si	nell	ing.	Hou	se, St	, Er	th, A	lugu	at 9	, 1848.			
Mine. Wheal Tremayne	Tons	c.	qr.	lbs.				Pri	æ.		An	oun	ut.
Wheal Tremayne	12	2	3	9			£40	15	0		£494	15	3
ditto	1	11	2	17			34	0	0		53	16	i
Carriage of ditto							0	10	0		6	17	2
Total	amoun	\$			****	£	555	8s.	6d.				-

Mine. Tons c. gr. lbs. Price. Purchasers.
Ashburton United 4 17 0 24 £42 0 0 Bolitho & Sons.

COPPER ORES. Sampled July 26, and Sold at Andrew's Hotel, Redruth, Aug. 10, 1848.

Mines.	Tons.		,	Pric	e.	Mines.	Tons.	1	rice	
Carn Brea	125		£3	13	0	Par Consols	68	 £5	18	6
ditto	96		7	5	6	ditto	64	 7	5	0
ditto	87		3	15	0	Wh. Agar	70	 3	4	6
ditto	85		7	3	6	Wh. Tremayne	42	 4	8	6
ditto	82		3	11	6	ditto	25	 1	12	6
ditto	73		7	8	0	Wellington Mines	27	 8	9	0
ditto	69		2	17	6	ditto	13	 3	17	0
ditto	58		4	4	6	Hayle Slag	40	 i	4	0
ditto	54		3	6	0	Wh. Jane	35	 3	1	0
ditto	41		7	6	6	Wh. Pleasant	11	 2	8	0
Par Consols	104		5	17	6	Gwinear Consols		 7	4	0
ditto	76	****	6	1	0				1	-

TOTAL PRODUCE. Carn Brea 770 £3846 1 6 Hayle Slag 40 Par Consols 312 70 8 40 Wh. Jame 35 Wh. Agar 70 225 15 0 Wh. Pleasant 11 Wh. Trumayne 67 229 9 6 Gwinear Consols 10 Wellington Mines 40 278 4 0 1 1

COMPANIES DI WHOM THE UKES V					
	Tons.				
Mines Royal		£1471	8	0	
Vivian and Sons		2088	11	9	
Freeman and Co	1244	479	18	3	
P. Grenfell and Sons	46	133	3	0	
Crown Copper Company	61	25	0	6	
Sims, Willyams, and Co			11	0	
Williams, Foster, and Co	3184	1962	14	6	
Total tons	1355	£6767	7	0	

Copper ores for sale on Thursday next, at Andrew's Hotel, Redruth.—Mines and P. cels.—Devon Great Consols, Wheal Josish, Wheal Maria, Wheal Fanny, and Wheal An Maria, 1021—West Carndon 267—Fowey Consols 228—Wheal Friendship 217—Mar Valley 182—Bedford United Mines 102—Treviskey 58—Wheal Pink 57—Holmbush 64Plicank 36.—Total quantity of ores to be sold, 2222 tons.

Copper ores for sale on Thursday week, at Andrew's Hotel, Redruth.—Mines and Parcels.—United Mines 1161—Par Consols 357—South Caradon 222—Wheal Comfort 206—Treawean 144—West Wheal Jewel 73—West Trethellan 41—Wheal Brewer 28—Wheal Agar (by Caradon) 20—East Downs 8.—Total quantity to be sold, 2260 tons.

At SWANSEA, for sale August 17.—Cobre 126, ditto 83, ditto 81, ditto 77, ditto 70, ditto 66, ditto 44, ditto 149, ditto 89, ditto 86, ditto 75, ditto 73, ditto 71,—Cuba 132, ditto 125, ditto 84. ditto 19, ditto 75, ditto 84. ditto 19, d

GOAL MARKET, LONDON.

PRICE OF COALS PER TON AT THE CLOSE OF THE MARKET.

MONDAY.—Bate's West Hartley 13 9—Buddle's West Hartley 14 3—Holywell Main 14 6—New Tanfield 13—Grd's Reddeugh 13 6—South Feareth 12—Tanfield Moor 14—Townley 13 6—Wall's End Acorn Close 15 6—Bell and Brown 15 9—Clarke and Co. 13 6—Framwellgate 15 6—Gosforth 15 9—Heddley 15 9—Heaton 15 9—Harton 15 9—Hidla 15 6—Killingworth 15 9—Walker 15 6—Washington 15 3—Eden Main 16 3—Lambton Frimnese 16 3—Belmont 16 6—Bradqli's Hetton 17—Haswell 17 6—Hetton 17 3—Keepler 17—Lambton 17—Morrison 13 9—Murton 17—Russell's Hetton 17—Shotton 16 3—Stewart's 17 3—Whitwell 16 3—Caradoc 16 9—Cassop 16 6—Hudson's Hartleyold—Heugh Hall 16—Thornley 16—Adelaide Tees 16 6—Seymour Tees 16—South Durham 16—Tees 17—West Cornforth 15 6—West Hetton 16—Derwonwater Hartley 14—West Hartley Metherton 14 3—Sidney's Hartley 14 3—Holywell Main 14 6—New Tanfield 12 9—Ord's Redheugh 12 6—Percy Begsham 15 3—Tanfield Moor 14—Townley 13 6—Wall's End Elm Park 15 9—Framwellget 16—Gosforth 15 9—Helley 15 9—Killingworth 15 9—Riddel's 15 6—Washington 15 3—Jonasshon 15 3—Lambton 17—Russell's Hetton 17—Stewart's 17 3—Whitwell 16 6—Ships at market, 13 3—Witteel 16 6—Seymour Tees 16—South Durham 16 9—Hartley 10—17 3—Jonasshon 15 3—Lambton 17—Russell's Hetton 17—Stewart's 17 3—Whitwell 16 6—Ships at market, 70; sold, 52.

FEIDAY.—Buddle's West Hartley 14 3—Carr's Hartley 01 4—Chester Main 15—Dayison's West Hartley 14—Bell 16 6—Ships at market, 70; sold, 52.

FEIDAY.—Buddle's West Hartley 14 3—Carr's Hartley 14 3—Chester Main 15—Dayison's West Hartley 14 4—Carr's Hartley 14 3—Chester Main 15—Dayison's West Hartley 14 4—Chaster Main 15—Dayison's West Hartley 14 3—Chaster Main 15—Dayison's West Har

FRIDAY.—Buddle's West Hartley 14 3—Carr's Hartley 14 3—Chester Main 15—Daylson's West Hartley 14 3—Dean's Primrose 13—Adair's Main 12—Hasting's Hartley 14 3—Original Tanfield 119—Ord's Reddeugh 12 6—Pontop Windson 12 6—South Pearett 19—Tanfield Moor Butes 12 6—Townley 13 6—Wall's End Clarke and Co. 14—Elm Park 16—Gibson 15 6—Gosforth 159—Heddley 159—Harton 15 6—Hotson 15 6—Wallow 15 6—Wallow 15 6—Wallow 15 6—Wallow 15 6—Wallow 16 6—Bernon 16 6—Bernon 16 6—Bernon 16 6—Bernon 17 3—Eld 16 6—Hawarell 17 6—Hetton 17 3—Eld 16 6—Hawarell 17 6—Hetton 17 3—Eld 16 6—Gawarell 17 6—Hetton 15 6—Wallow 15 6—Wallow 15 7—Whitewall 18 6—Gawarell 17 6—Wallow 15 6—Hawarell 18 6—Hetton 17 3—Hotson 16 6—Stevant 17 6—Wallow 15 6—Hetton 15 6—Hetton 17 6—H 16—Caradoc 17—Cason 16 9—Hudson's Hartleopol 16—Hery Hall 16—Relice 17 3—Whitwell 16—Caradoc 17—Cason 16 9—Hudson's Hartleopol 16—Hery Hall 16—Relice 16 9—Adelaide Tees 16—Schardson's Tees 15—Seymour Tees 16—South Durham 15 9—Tees 17—West Tees 15 3—Covpen Hartley 14 6—Derwentwater Hartley 14—Wost Hartley Netherton 14 3.—Ships at market, 133; sold, 107.

Contract for Coal to India.—The Court of Directors of the East India Company have given notice, that the Finance and Home Committee will be ready, on or before Wednesday next, the 16th india. In the forencon, to receive sealed tenders from such persons as may be willing to supply the company with 3000 from of coals of either of the under-mentioned sorts, to be delivered at Aden, on the southern coast of Arabia—viz. West Harrley coal, Carr's Hartley, Buddje's ditto, Davison's West Hartley, Stewart's Wail's End steam coal, Hartlepool, West Harrley, Ghaggow hard splint coal (acreened), and Risca black vein coal (hand-picked). The progress of steam navigation in the Mediterranean, the Red Soa, and the Indian Archipeingo, within the last few years, and to our West Indian colonies, has opened a wide field to our collieries for exportation, and also the necessary demands of the steam-ressels of her Majesty's navy. When rallways are generally established throughout the castern and western hemispheres, this demand for carbonic or bituminous fuel will be greatly increased, as also that for iron, and machinery of every description.

THAMES TUNNEL COMPANY.

The number of passengers who passed through the Tunnel in the week ending Aug. 5, was 17,059; amount of money, £71 1s. 7d,

Rainton Colliery.—T. Hall, while working at the Meadows Pit, was passing upon a wag-gon, which conveys the tube up an inclined plane to the top of the pit head, fell, and alighted upon the sole-end of a waggon standing below, by which his head was so so-verely bruised, that he died almost immediately.

NOTICES TO CORRESPONDENTS.

of obliged to all pursers, captains, or adventurers, a stings, &c., of the mines with which they may be ortunity, that they may be published in the Journ

—In our notice of Mr. Buckle's paper, on a Machine for Grinding Bones for —read at the recent meeting of Machanical Engineers—the quantity said to m ground in 10 hours should have been 136 bushels.

Journal is published at about Eleven o'clock on Saturday morning, at the Fleet-street, and can be obtained, before Twolve, of all news agents, at the hange, and other parts of London.

THE MINING JOURNAL Railway and Commercial Sazette.

LONDON, AUGUST 12, 1848.

It is but a very short time since that we apprised our readers of It is but a very short time since that we apprised our readers of the probability of an early revival of business in the iron districts; and, about the same time, we addressed a short article to the workmen especially, pointing out the reasonableness of their suffering, with the masters, patiently the pressure of the times, and the infinitely greater advantages of submitting to the course which events were taking, than of meeting it in a temper of dissatisfaction and resistance. It gives us great pleasure to learn, by communications from the immediate districts, that the improvements which were foreseen are actually commenced—that orders have come in were foreseen, are actually commenced—that orders have come in with such freedom, as to make trade cheerful and active; and, although prices under the arrangement, peculiar to this trade, cannot be raised immediately, there is a near prospect of better wages to the men, and of fairer profits to the masters

From the same sources we are also very happy to learn, that between the two classes just mentioned a good understanding every-where prevails. The men have seen the propriety of a peaceful and where prevails. The men have seen the propriety of a peaceful and orderly conduct, and that the temporary lowering of the wages of their labour was what arose necessarily out of the great and general depression of business. They may now look forward very confidently, we trust, to an early advance of wages—for, if we know anything of the ironmasters as a body, nothing will give them greater satisfaction than raising and enlarging the material comforts of their workmen, when the prices ruling the market will, by any means, allow them to do so. How happier, wiser, and more beneficial are such results as these, than that tumultuous precipitation of the several classes against each other, by which, in so many instances, capital has been dispersed, and occupation itself become a stranger to the 10,000 throngs who waited for and wooed her approach.

In a late Number, we gave at length a copy of the petition to the House of Lords, on the subject of the reduction, or rather, we might say, the remission of the duty imposed on the importation of foreign ores, and have since received copies of petitions to the House of Commons, now in course of signature, and which will be presented on an early day, so that the same may, at least, be rendered, in some degree, effective in committee, as but little hope was entertained that they would be successful in causing the bill to be thrown out on the second reading, supported, as it is, by the shareholders in foreign mines, the smelters, and the Ministerial phalanx. From the nature of the petitions presented, and the language in which the nature of the petitions presented, and the language in which they are couched, it would appear, that all interested in mines—

they are couched, it would appear, that all interested in mines—
not only as lords and adventurers, engineers, merchants, carriers,
or the shipping community, but more especially the working miner,
should lend a helping hand, and by one united effort prevent the
destruction of our home mining interest, which, it is assumed, must,
in a great measure, be the result of the proposed Ministerial measure,
if carried—the effect necessarily being that of affording increased
advantages to the foreign miner, and to the smelter, at the cost and
ruin of the industrial mining classes of the United Kingdom.

In directing attention to this important subject, with a due regard
to our home mines, we are not insensible to the vast capital expended in Brazil, Chili, Cuba, Mexico, and other districts. It
is not the capital embarked that we are alone to look at, but it is,
in addition thereto, the monthly expenditure in working the mines,
all which, or at least, the greater portion, is spent abroad, and, comparatively, not a penny expended in promoting or encouraging the
mining interests of this country, save the salaries paid to English
agents, and some few pitmen, or working miners. We know full
well, that assuming the mines even to pay cost, or yield a slight
profit, yet, with a current expenditure of \$10,000 or \$20,000 monthly,
that the produce arising from such outlay comes not into the pockets
of the shareholders, but returns to the mines, to afford them the
means of paying the next monthly cost, or current expenditure.

means of paying the next monthly cost, or current expenditure.

Let us not, however, run away from the object in view—that of
the policy or otherwise of the proposed measure; and, while our
columns are ever open to the opinions of all parties on a subject so important as the present, we cannot disguise from ourselves, that the injury likely to be inflicted on our home mines should the proposed measure become a law, is such as can only be viewed with alarm by all interested in the working of mines, or who have a regard for the welfare and means of support to be afforded to the working miner. From figures before us, it appears that, during the past five years, no less than 252,202 tons of foreign ores have been imported—that is, so far as can be collected from sales at ticketing, but the noterious that laws quantities are imported direct to the smelter. is notorious that large quantities are imported direct to the smelter at Swansea, or consigned to Liverpool. It is, therefore, most important that, in viewing the question, the association of the smelter with the foreign miner should be considered as blended in opposition that the considered as blended in opposition. tion to the home mine adventurer, for that the interests of the latter as well as of the home miner, are sacrificed to the advantages to as well as of the home miner, are sacrificed to the advantages to be acquired by the foreign mine adventurer, in importing his ores to this country, and that now proposed to be on increased beneficial terms, we think must be generally admitted. We have before us the results of the public sales of British and foreign ores, for the years 1846 and 1847; from which we find, that the quantity of Cornish ores raised in that time was 306,467 tons, of an average produce of 8, yielding 24,575 tons 2 cwts. of pure copper, which, taken at the average price of 92l. per ton, would give 2,313,402l. 8s.; while the ores produced only 1,685,533l. 7s.—thus leaving on those two years a surplus of 627,869l. 1s., which was in favour of the smelters. From this amount we must, of course, deduct—say, 13l. 10s. per ton, for charges of smelting, which would be on 24,575 tons 2 cwts. of copper, 331,763l. 17s., which would give a surplus tons 2 cwts. of copper, 331,763l. 17s., which would give a surplus profit in favour of the smelter, after deducting all costs, of 296,105l. 4s. on Cornish ores alone

If we turn to the foreign imports, we shall find that, in the sam period, the sales, through the same channels, amounted to 96,236 tons, yielding 24,064 tons of pure copper—the average produce of the ores being 25 per cent. The amount realised by the sales of ore was 1,223,9684. 19s. 6d.; while the price realised as pure copper by the smelter was 2,213,8884., leaving a surplus of 989,9194. Os. 6d., by the smelter was 2,213,8531, isaving a sin plus of 353,9135, os our from which deduct, as in the former instance, 13l. 10s. for smelting charges, or 324,864l.—giving a net profit of 665,055l. 0s. 6d to the smelters—thus making the gross profit, for the two years no less than 961,160l, 4s. 6d., such sum being divided between five

no less than 961,160′, 4s. 6d., such sum being divided between five or six houses, of which two may be said to take the lion's share. Let us next see what have been the results of the past six months, as regards the Cornish and foreign mines, which, with the other data, will be found to have been reported in our columns. The results of the past six months show the returns of Cornish mines to be 75,442 tons, with an average of 8½ produce, yielding 6264 tons 6 cwts. of pure copper—the amount received for the ore by the miner being 379,848′. 6s.; while that realised by the smelter was

563,832L, less the assumed cost of reduction, which, at 13L 10s. per ton, would amount to 84,433L—thus showing a net return of 99,551L Again, to take the foreign ores, we find that the quantity entered and sold was 20,258 tons, which, if again taken at 25 per cent, would produce 5064 tons of metallic copper—the amount produced on the sale of ores being 232,956L 12s.; while the value of pure copper is set down at 465,888L, which, after deducting the assumed cost of smelting—say, 68,363L—would leave a net profit to the smelter, over and above cost of ores and smelting charges, save interest on capital, no less a sum than 164,568L 8s.—thus giving, for the past six months, with a reduced price of metallic copper, a net income to the smelters of upwands of 520,000L per annum. We are well aware, that these figures will, and doubtless can, be met, on the part of the smelters, by certain sets off; but we defy them to disprove the assertion we boldly put forward, that they are reaping excessive gains at the cost of the adventurers and the miner; and hence the necessity of the establishment of a smelting company, or the amalgamation of the mining interests, to put down monopoly, and to uphold fair and legitimate prices, so as to be remunerative or the amalgamation of the mining interests, to put nown monopoly, and to uphold fair and legitimate prices, so as to be remunerative to the hard-working miner, and to yield a return to the capitalist for his investment. In following out the statistics before us, we may observe that, while on the 30th of March the produce is 72, and the price of pure copper 922, per ton, the price of the ore was 42. 13s. 6d., with a standard of 1001. 11s. Comparing this with the sale of the 25th of March was find, while the produce of the ores, and price of metal. of May, we find, while the produce of the eres, and price of metal, on May, we find, while the proviously cited, the price of the ore is only 3l. 19s. per ton—thus making a difference of 14s. 6d. per ton; or, on the aggregate sale of 4562 tons, a reduction in value of upwards of 3300l., or at the rate of 165,000l. per annum. The quantity of one imported in the past five very from the return and tity of ores imported in the past five years, from the returns pre-sented, show an aggregate of 262,585 tons, which, if we take them at 25 per cent. produce, including regulus, would give us 65,646

tons of pure copper.

To revert to the petitions about being presented to the House of To revert to the petitions about being presented to the House of Commons, and now in course of signature, it may be sufficient to observe that, in substance, they are alike to that which appeared in a late Number of the Journal, addressed to the Upper House. It will be remembered, that Mr. Wylde, the hon. Member for Bodmin, moved for certain returns, having reference to foreign ores imported, with the view of directing the notice of the House to certain points connected with the proposed measure; and, we were given to understand, that the Copper Duties Bill would have come under consideration on Thursday, the 3d inst., and again on the 10th, but have good reason to believe that the matter will be shelved for the present session. In the mean time, it is to be hoped that there will be no endeavour to smuggle the bill through the House, or committee, without the Members for the county having the opportunity of at least drawing attention to its objects, and the injury it is calculated to inflict on our bome mines.

It is a long time since a proposition has turned up more season able as to its date, or promising more fully to realise the expecta-tions of its promoters, than that now before the public for the further tions of its promoters, than that now before the public for the further colonisation of New Brunswick, and some of the southern districts of Canada. A further recommendation of the project is, that it is primarily suggested, and will be carried out by the funds supplied, for the most part, by the working classes, and to be applied under the superintendence of a committee of themselves. In addition to the colonial part of the undertaking, it is purposed to construct a railway, in such a direction through the lands colonised, as that it may become an accessible and economical highway, to take off, with all expedient regularity and dispatch, the industrial produce of the new colonists—agricultural, mining, and miscellaneous. Objections are, with some plausibility, raised as to this double undertaking, as likely to embarrass the mind and overtask the means of the committee; but it is not necessary that the expected funds of jections are, with some plausibility, raised as to this double undertaking, as likely to embarrass the mind and overtask the means of the committee; but it is not necessary that the expected funds of the association should be in any danger of being exhausted by the two branches of expenditure. It is purposed to raise 2,000,000/. sterling, for the purposes taken as a whole of the new settlements. In the districts which it is purposed to occupy, railway construction, in consequence of the lower value of land and labour, and the presence of almost all the requisite materials, the expense of this description of work bears no proportion to what it would amount to in almost any other country in which the creation of such an extensive line of transit would be for a moment thought of. It does seem to us desirable, that the unwooding and the sowing of the lands, and the erection of a great highway for the transmission of their produce, should go on pari passu and hand-in-hand. It would, in that case, be an area, giving occupation to railway artisans and labourers, as well as to those whose special business it is to plough, to sow, and to reap. The working public will be satisfied to know, that so tried, so sincere, and so discriminating a friend as Lord Ashley, is a prominent patron of this new enterprise. But on its merits alone the undertaking deserves, as we think, the attention of Government, and the assistance of those interested in relieving the labour market of the United Kingdom, in whatever direction, and by whatever arrangement of efforts that relief can be realised. labour market of the United Kingdom, in whatever direction, and by whatever arrangement of efforts, that relief can be realised.

There can be few tasks much easier than that of sitting down in the retirement of a sing library, and delving into half a score volumes of left-handed reports, and half the number of oblique documents, and out of them elaborating a colourable charge against the imperial administration of the colonies of Great Britain. A notable instance of this discreditable facility was afforded by the House of Commons some few nights since, when a gentleman of great abilities, Commons some few nights since, when a gentleman of great abilities, no doubt, but of greater inexperience, and as green to the duties and the difficulties of public business as man well can be, arraigned the conduct of the colonial office—not in this or in that particular branch of its labours—not in that continent stretching through the temperate zone, nor in those islands sparkling in the torrid—not in this generation more particularly than in that preceding it—not by one class of statesmen more than by another, but by all Governments, and by every administration, at all times, and wherever, in either hemisphere, we have set up the ensigns of our authority. The enormous breadth of this imputation, the extreme latitude of the indictment, deprives it of all specific force, and takes out of it all individual application. It is one of those vague generalities which falls on no human shoulders in particular, and fixes itself upon no cabinet, nor any score of cabinets, past or present, as a matter of just complaint, or of plausible incrimination. There are two facts connected with the colonial empire of this country, which, under the complaint, or of plausing intermination.

nected with the colonial empire of this country, which, under the circumstances of this charge, are very beneficially significant. In the first place, the colonies of England are very extensive; and secondly, as a rule, they are very prosperous—step by step our acquisition of territory was one of the consequences of a just and paternal administration of that which had been previously acquired. ternal administration of that which had been previously acquired. Every one conversant with the growth of our possessions, is quite aware, that the prestige of our Government was scarcely less efficient than the force of our arms, in making us masters of the lands for which we contended; and, having won them, the peace, the commerce, the civilisation, and the happiness of the people flowed on as a river—fertilising and refreshing whatever, in the existing elements of society, had, till that time, continued dry and unproductive. Commerce and the arts, we repeat it, has already been imparted to them, and we wait to bestow, when they are competent to receive, the full benefit of our civil institutions, our literature, and our civilisation. In the face of these benefits, so largely inherited, and of sation. In the face of these benefits, so largely inherited, and of others, which wait only the inheritable condition in those who are to receive them, Sir W. MOLESWORTH tells the House of Commons and the world, that the government of your immense colonies is an im-

mense failure. This is one of the consequences of having us such a multitude of amateur statesmen—such a crowd mense failure. This is one of the consequences of anying among us such a multitude of amateur statesmen—such a crowd of political dilletanti, who put themselves, in another sense, in the case of that martinet, who could criticise all the campaigns since those of Cæsan, yet had himself never set a squadron in the field, nor of the division of a battle knew more than a spinster. It is impossible, that either in or out of Parliament, much countenance can be given to pretensions so unsanctioned and unsupported as these. It is impossible also to give any very favourable account of the double proposition proceeding from the same amateur school—namely: that upon all the colonies of England, great and small, we should be stow the British constitution in miniature; and, secondly, that we should leave then to their own means of government and defence. Highly as we think of that constitution as a system of polity for the people of these realms, who have grown up beneath the shadow of that glorious tree, and eaten, from the childhood of our public history, of its fruits, we may yet doubt its adaptation to all the phases of society, within the circle of climates to which our teachers would apply it. In many cases, there can be no doubt, it would be reckoned rather a load pressed on their shoulders than a boon cast into their lap; and, in every case, it is as much our duty to inquire whether they and, in every case, it is as much our duty to inquire whether they are fit for the British constitution, as whether that same constitution are fit for the British constitution, as whether that same constitution is fit for them. As to their power to govern or to defend themselves, that in the early stages of their progress we have proofs unitiplying upon us that they cannot; nor in the particular instance of defence, is it right, or reasonable, that they should? The protection of the colonies is an imperial duty, which we can neither abdicate nor intermit. It is somewhat different with the internal administration of their affairs. These form the proper sphere for their own activity and their own address; but, in both cases, the superintendance and control of the imperial Government is a thing of which nothing ought to interrupt the occasional exercise, or to dim, in any sense, the perpetual recognition. The colonies want, in the main, to be let alone; they ask to cultivate their own fields, to work their own mines, and to export and carry to market their surplus proto be let alone; they ask to caltivate their own fields, to work their own mines, and to export and carry to market their surplus produce, with as little external interference as possible. Defend them from all foreign interruption, and allow and encourage the increase of their numbers and of their industry, and, in a few years, you will become the founders of a brotherhood of commonwealths, upon whose prosperity the sun of heaven does not go down. It is a part of this policy of quiet encouragement, and of non-interference, which has led the Government to withdraw its claims to the royalties, which, at one time it was intended to leave on the mines of the colories. at one time, it was intended to levy on the mines of the colonies, whose rich ores are now making themselves felt in the markets of Europe; and another instance of the care and liberality of the Crown—that it has recommended to Parliament such an improvement in the old navigation statutes, as is likely to operate very beneficially on the trading interests at large of those dependencies, whose prosperity and happiness, in all material things, is the prosperity and happiness of England herself.

THE LONDON AND NORTH-WESTERN RAILWAY.

THE LONDON AND NORTH-WESTERN RAILWAY.

THE DISPUTE WITH THE ENGINE-DRIVERS AND FREMEN.

We deeply regret that this important dispute—important not only to the parties immediately concerned, but to the public, whose asidry, it may easily be conceived, is, in some degree, at stake—yet remedias unsettled. Yasterday, at the usual half-yearly meeting of the company, several sharsholders questioned the directors on the subject, and generally expressed a desire, that neither the wages of the engine-drivers should be raduced, nor that "in any scheme of saving, such as that alluded to in the report, these skillsh men should be the suffices." In the control of the proposed skillsh men should be the suffices of the isomotive department, and the author of the proposed skillsh men should be the sufficient of the proposed skillsh men come forward in a most excellent spirit, and that we have received such assistance from the north, and from public establishments, that we shall be able, without the slightest difficulty—even if these misgrided men still pursue the course they are now pursuing—to carry on the public service without the load detriment to the public service without the load detriment to the public safety." Provious to the meeting of the shareholders yesterday, a deputation of the captandication, and the deputation then proceeded to the Enston Station. They there saw the locomotive committee, who announced that the directors were determined to stand by the classification system promulgated by Mr. M'Connell. The men, on their purt, expressed their firm determination, at all naturals, to athers to their notices, and leave the service of the company, if that system were adhered to, being convinced that, whatever the state of the company, if that system were adhered to, being convinced that, whatever the state of the company, if that system were defined to, being convinced that, whatever the state of the company, if that system were defined to, being convinced that, whatever the state of the company, if the system were

Mining in France.—The last reports from the mining districts throughout France, represent business generally in a very gloomy state, as the great scarcity of money, and the few orders, prevents enterprising advanturers embarking largely in working their mines, or blasting their furnaces. There is, however, a trifling improvement on the last tew months; turers embarking largely in working their mines, ot blasting their furmaces. There is, however, a trifling improvement on the last tew months;
but the depressed state of every branch of industry has had a most fatal
effect on mining speculations, and particularly that of railways, as the
traffic, both for passengers and goods, has so decreased, that the greater
portion of the companies are reducing their establishments to the most
economical footing; and those railways that were only partly completed,
or projected, are at a stand-still, for the want of fands—consequently, the
iron trade and the colliery proprietors suffer greatly from this monetary
crisis. The Government is introducing the strictest economy in the naval
department; and at Brest, Cherbourg, L'Orient, La Rochelle, Rochefort,
Bayonne, Toulon, &c., several ships that were on the stocks will remain
so for the present year, without being further completed; and in the steam
navy the greatest saving in every branch is being made by the marine
authorities; so that the demand for British iron and machinery will, for a
time, be very limited for the national marine arsenal for ships, &c.

MINING IN BELGIUM.—The unsettled state of the affairs between Prussia and Denmark, and in fact the whole of the north of Europe, has greatly depressed her commerce in every branch, but more especially her foundates and collieries, which added to the extreme scarcity of ready cash, and the suspension of so many works in the railways, it will be some time before she will recover from the effects of the revolution in France, and the unsettled aspect of the continent, from north to south and east to west.

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or printin or type, p shortened per position posed round the lar motion IMPROVEMENTS IN ELECTRIC TELEGRAPHS. ation of patent granted to Henry Highton, of Rugby, M.A., and Edwarent's Park, Middlesex, C.E., for improvements in electric telegraphs.

This invention is described as consisting of 15 parts, and the description is arranged under that number of heads. The following gives the substance of it, but the enrolled specification must be looked to for the exact details of this important invention:-The first part consists in producing a power for moving pointers, and for other purposes, by means of horse-shoe magnets, surrounded by multiplying coils of wires, and sus pended on an axis. Several methods of using them are described, with he axis between the legs of the magnet, and at right angles to the plane which the legs lie, so that the magnet shall oscillate in that plane; and, again, with the axis running through the middle of the magnet, and in the same plane as that of the legs of the magnet, so that they shall oscillate at right angles to that plane. There are described also several me-

late at right angles to that plane. There are described also several methods of combining two or more horse-shoe magnets together, and surrounding them with multiplying coils, so as to unite their effects. By the employment of horse-shoe magnets, thus arrranged, all the effects capable of being produced by magnetic needles can be obtained.

The second part of the invention consists of a system of finger keys, for the purpose of producing the greatest possible number of variations in the manner of transmitting electrical currents along telegraphic wires, each single key forming one of those variations. The number of variations capable of being formed is described as represented by the number three, raised to the power of the number of line wires, minus one. Thus, the variations on three wires are 26—the exact number of the letters of the alphabet; so that by a set of the finger keys, marked with the letters of the alphabet, and combined with instruments afterwards described, a person has nothing to do but to sit down before one of these instruments, and touch in succession the keys as required, and, at some distant station, the letters and words are either instantaneously printed, or exhibited to the eye. With four wires, and their corresponding keys, 80 different symbols may be exhibited, and so on.

The third part of the invention censists of an instrument, for the purpose of completics the discrete and constructions are constructed to the purpose of completics the discrete and constructed to the purpose of completics the discrete and constructed to the purpose of completics the discrete and constructed to the purpose of completics the discrete and constructed to the purpose of completics the discrete and constructed to the purpose of completics the discrete and constructed to the purpose of completics the discrete and constructed to the purpose of completics the discrete and constructed to the purpose of completics the discrete and constructed to the purpose of completics the discrete and constructed to the p

The third part of the invention consists of an instrument, for the pur The third part of the invention consists of an instrument, for the purpose of completing the circuit of secondary batteries, which, as it requires to be often mentioned in the after part of the specification, the inventors call by the name of percende, from two Greek words, signifying the "completion of a circuit." The peculiarity of the instrument consists in its capability of completing, at a distant station, one of either of two different circuits, without the possibility of any accidental confusion by the oscillation of the magnets used.

The fourth part courses in a method of averaging screens one behind

The fourth part consists in a method of arranging screens one behind The fourth part consists in a method of arranging screens one behind another—so that when they are moved to the right, or left, by the electrical power, they instantaneously show the required letter, or symbol, out of the whole number, capable of being exhibited by the variations of the method of transmitting the currents along the number of wires used. They are used in combination with the keys before described—so that each key causes the screens so to move as to show at once the letter, or symbol, corresponding to the key. Thus, with three wires, and the corresponding system of keys, any one of the 26 letters of the alphabet may be instantly exhibited; and, as fast as a person puts his fingers to the keys, the corresponding letters are read off at a distant station. With four wires the number of symbols is increased to 80, as before.

The fifth part of the invention is a peculiar kind of escapement, adapted

the number of symbols is increased to 80, as before.

The fifth part of the invention is a peculiar kind of escapement, adapted to producing the motion of paper, &c., for the purposes of telegraphic printing. The movement produced is an unequal step-by-step movement, of such a kind, that at the first step the paper may move so very small a distance, as to be virtually almost in a state of rest, while the type hammer strikes down upon it, and in this way a clear impression of the type is produced; whilst the second step, which takes place during the return of the type hammer, moves the paper the distance which is usually preserved between letters in printing. This invention enables any of the escapements, known as locking escapements, to be used in telegraphic printing; and thus, at the same time, also is secured a clear impression of the letters, and a perfect uniformity of distance between them.

The sixth part consists in a contrivance for producing greater rapidity

and a perfect uniformity of distance between them.

The sixth part consists in a contrivance for producing greater rapidity in the use of a revolving disc, with a step-by-step motion, either for the exhibiting, or printing, of letters, or other symbols, and for remedying the great defect in such plans, as formerly used—which is, that one slip, or error, makes all the subsequent letters wrong, till the discs at the different stations are set right again by hand, so as to correspond with each other. This contrivance enables the disc, by the reversing of the electric current, to be thrown forward in its revolution, at one bound, to zero, or its starting point. Thus, supposing that the word to be exhibited, or printed, begins with the letters B A, the disc is moved, by a step-by-step movement, to the letter B, which is then shown, or printed; the current is then reversed, the step-by-step movement is thrown out of gear, and the disc completes its revolution to zero, by one bound, ready to be moved forward again by the step-by-step movement to the letter A; and whenever the disc thus completes a revolution, which would be, on an average, after every two letters, all the discs at the several stations would necessarily, by the movement itself, be set so as to correspond, and, consequently, one slip, or letters, all the discs at the several stations would necessarily, by the movement itself, be set so as to correspond, and, consequently, one slip, or error, in any of the instruments, would entail no consequent errors—a defect in the instruments heretofore constructed, which has prevented their practical use; and it is plain also, that about half the time required for transmitting a message would be saved. Under the same head is described also the additional apparatus necessary for the printing letters so moved forward—namely: the apparatus for driving the hammer down to strike the type upon the paper, holding the type whilst the hammer strikes it, and then allowing it to complete its full revolution, so as to commence again at the starting point, all being effected by the electrical power, conveyed along one single wire, and the secondary batteries connected with it.

Under the head of the seventh part, is fully described in detail the method of combining the percended, and its secondary batteries and electro-

Under the head of the seventh part, is fully described in detail the method of combining the peraenode, and its secondary batteries and electromagnets, with the escapements described under the fifth and sixth heads; so as to exhibit to the eye any communication by means of the alphabet, inscribed round the edge of a disc—the whole being governed by means of a single telegraphic wire, extending from a distant station.

The eighth part of the invention is the printing, or stamping, by means of the power derived from secondary batteries. Several methods are shown in which this may be accomplished with different numbers of wires, and different apparatus connected with them. The first method shown

of the power derived from secondary batteries. Several methods are shown in which this may be accomplished with different numbers of wires, and different apparatus connected with them. The first method shown is where three line wires and three perandes are used, working six type hammers, which, by their combinations, form a peculiar symbolical alphabet—illustration of which is afforded in the specification, but prevented from appearing here from want of space. A form of instrument is next described, of a rather more complicated kind, by which a communication may be printed, not in the symbolical, but in the ordinary, type. By the variations of the currents formed by wire perændes, any one of 26 type-hammers are moved, so that the keys before described are touched in succession—the corresponding letters are instantly printed at a distant station. Other additional instruments are afterwards described, by which, through the means of perændes, and a step-by-step motion, communications may be printed in ordinary type, using one or two wires—the use of two very much increasing the rapidity of the printing—so that an average of only two or three step-by-step motions need be made for printing any required letter; but we could not make any of these plans intelligible in detail, without giving all the drawings which accompany the description in the specification. A corresponding method is also shown of exhibiting letters to the eye, where it is not required to print a communication, and where similarly only two or three step-by-step movements are required to show any required letter, or symbol.

The minth part of the invention consists in the application of the perænde to Morse's American telegraph, by which means a telegraph, formed on that system; is able to do ust double the work in the same time, when com-

The ninth part of the invention consists in the application of the perænode to Morse's American telegraph, by which means a telegraph, formed on that system, is able to do just double the work in the same time, when compared with what it can perform, when worked on the ordinary system.

The tenth part of the invention describes a method of either exhibiting or printing a communication in the ordinary letters of the alphabet, by means of a cord, band, or chain, to which is attached a scale with letters, er type, placed upon it. By means of three perænodes, the cord is so shortened as to bring any required one of the letters, or type, into a proper position to be exhibited or printed; or the type and letters are disposed round the circumference of a wheel, and the cord, or chain, passed round the wheel—and thus the shortening of the cord produces an angular motion in the wheel sufficient to bring any of the letters in the same way to some determinate place, for the purpose of being exhibited or printed. The eleventh part of the invention consists in the use of a pedal for removing from, or putting into, a telegraph circuit an alarum apparatus, or for lifting from the liquid of a battery the metals employed; so that, on

the operator leaving the instrument, the alarum cannot possibly be left out of the circuit, nor the metals be left in the liquid of the battery—preventing thereby the excessive waste of material, now caused by having the metals always immersed in the liquid.

The twelfith part is the employment in electric telegraphs of the solution of the salts of the ammonia, for the exciting liquid in the batteries employed. The inventors recommend this form of battery for telegraphs, in consequence of their constantly uniform strength, for great lengths of time. They state, that the ammonia evolved on the negative plates of the battery being soluble in water, does not form a coating of non-conducting substance on those plates, as is the case with hydrogen, in the batteries or dinarily used. They recommend, however, that the metals employed should be of considerable size, and be placed at considerable distance from each other.

should be of considerable size, and be placed at considerable distance from each other.

The thirteenth part is a method of insulating suspended wires. Instead of the wires being carried outside the posts, they are carried through holes, bored either through the posts, or through arms attached to them; and in the centre of these holes are placed heads with transverse slits in them, reaching from the circumference to the centre, and causing them to resemble in shape portions of spirals. These slits enable the heads to be slipped on the wires, while it is impossible for the wires again to escape from them, without the head being forced out from the holes, and turned round in a transverse direction to that of the wire. This arrangement prevents the necessity of any covering to the posts—the wood round the holes themselves forming a sufficient protection. Means are also shown of conducting away any water which may trickle down the posts in wet weather.

The fourteenth part is the use of metals, glazed or enamelled, in the form of rods, or tabes, or other shapes, for insulating suspended wires. It is merely an application to telegraphic purposes of the art of cnamelling metals, which is now so extensively employed for many other parposes.

The fifteenth part consists in the use of a metallic tag, similar in form to the tag of a boot-lace, for the purpose of protecting wires covered with varnished silk, or cotton, &c., from the effects of friction at the points of suspension. The claims are 15 in number, and correspond with the several parts of the invention as described—the whole forming a new system of electrical telegraphs, in accordance with the advanced state of mechanical and electrical telegraphs, in accordance with the advanced state of mechanical and electrical telegraphs in accordance with the advanced state of mechanical and electrical telegraphs.

of electrical telegraphs, in accordance with the advanced state of mechanical and electrical science, and calculated to take the place of the rough and infantile systems of telegraphing hitherto adopted.

at-office and Designs Registry, 210, Strand, August 9.

FIRST TRIAL OF BARON VON RATHEN'S LOCOMOTIVE CARRIAGE BY COM PRESSED-AIR ON COMMON ROADS .- We are informed, that a first and succe ful trial of this carriage, constructed in the workshop of the College for Civil Engineers, at Putney, under the immediate direction and plans of Baron Von Rathen, was made on Wednesday last. We have so often given notice in our columns of their different stages of progress, that we considered the first object of those experiments as the introduction of an entirely new, safe, convenient, and, according to the inventor, mest economical system of loomotion, to be a matter of the highest importance and interest. The carriage, which is about 3 tons weight, travelled from Putney College to Wandsworth (about one mile), from beginning to end, with a uniform and regular speed of about eight miles per hour; and there is no doubt that it would have continued to run for 10 or 12 miles, as was originally intended, but for an unfortunate accident in charging the reservoir (a combination of cylindrical tubes), to a too high degree of pressure in the course of the test, by which the greater part of those tubes were impaired and partly destroyed. The cause of this explesion (by which, fortunately, no one was injured) is not fully ascertight, were only charged for the trial, and, by way of caution, to 24 atmospheres, instead of 50—to which extent the whole reservoir was formerly tried, and intended to be used, at this degree of pressure, which would have allowed the carriage to run 10 times the distance of the actual trial. Nevertheless, we may consider the problem of the practicability of compressing air in large quantities, and to a high degree of pressure, without great loss of power, by the invention of a regulator and of an apparatus for expansion; the uniform working power is secured, and the loss by refrigeration in the expansion very much diminished. The greater or lesser distance of the trial can be, therefore, of no great consequence. We consider it highly to the credit of this institution for the education of practically and scientifically informed engineers, to have assisted and protected the inventor in carrying out the first experiment of such a valuable discovery, and, in its future destuny a Engineers, at Putney, under the immediate direction and plans of Baron Von Rathen, was made on Wednesday last. We have so often given notice in our

THE COPPER TRADE—ELBE COPPER-WORKS.—A correspondent from Ham burgh writes-" The announced resumption of blockading the Elbe by Den mark has filled us with gloom and anxiety; and there is no doubt, since the mark has filled us with gloom and anxiety; and there is no doubt, since the rejection of the terms offered by the king of that country, that it will be presecuted with greater severity than hitherto, and our already depressed commerce receive a severe blow. The inconvenience and loss experienced by the war must have been sensibly felt by the proprietors of the copper-works here. These works, which were commenced last October, and averaged a make of from 20 to 25 tons weekly of fine copper, had progressed so favourably and profitably, that the proprietors contemplated a considerable extension of their plant, and had built several considerable vessels, to carry their ore from South America. Owing to the blockade, these vessels have not been able to sail, nor the homeward-bound ones to reach here; and, this last two or three months, they have been obliged to discharge their workmen, and close their smeltingworks, for want of the necessary supplies of one. As they gave, both directly and indirectly, work to a great man labourers, and, consequently, weekly diffused a considerable sum of money, their suspension has been sensibly felt; but everything here, however, is nearly as bad."

The LEON TRADE IN AMERICA.—The correspondent of the Rirmingham

fused a considerable sum of money, their suspension has been sensibly felt; but everything here, however, is nearly as bad."

The Iron Trade in America.—The correspondent of the Birmingham Journal, in his letter of last week, says.—"The financial year of the Government closed on the 30th June; but, judging from the usual dilatoriness of the Treasury department, in issuing their returns, the details of our trade will not soon see the light. The opponents of free trade urge that, in consequence of English fron being forced upon our markets, encouraged by a low tariff, the ironmasters no longer keep their mills running night and day, as they did last year, and the markets of the west, which have hitherto been the chief customers of the Pennsylvania ironmasters, are in a great measure lost to them. 'Under the old law (they say), English hoop-iron did not as now find its way to the western and richest iron section of Pennsylvania, to be used as hoops to wooden buckets, at a saving of 25 per cent.; nor did the small bar-iron find its way to the lake countries in such an amount as to make a similar quality of the home-made article unsaleable.'—Some attention has also been drawn to the fact that some of our railroad companies have lately contracted for English iron at very low rates. The Eric Railroad Company, for instance, have made a contract for their rails at 6l. per ton, delivered in New York, which has called forth some petulant remarks from our ironmasters, who contend, with seeming justice, that we ought to be able to make the iron for our own railroads, as we have abundance of the raw material, and no lack of the ability to manufacture. The company, however, have doubtless been able to buy cheaper abroad than they could do at home, and during the current year some millions of dollars will be sent abroad for this article. The exports from this port for the first six months of 1848 were \$22,977,881, of which over \$7,000,000 were in specie—this leaves a balance of trade against us in New York alone of over \$24,00

a market here at any sacrifice."

The Mining Districts of this county are in a very desturbed state, in consequence of the agitation which has been kept up for some time past by the mining population, with a view to an advance of their present rate of remuneration. During the last week large meetings of colliers have been held in the principal districts, at which the wages question has been discussed; and on account of the employers showing little or no disposition to come to terms with the men, strong disaffection prevails. The demand of the workers is, to have 1s. 6d. per day in advance of their present rate (which is 2s. 6d.); and from all accounts they are resolved to gain this increase, which they allege the masters are perfectly able to give, with a very little addition to the market price of coal and iron. We understand that the Lanarkshire veomanry cavalry are under arms, and stationed in troop in Holytown, Bellshill, &c. Their appearance amongst the colliers has rather increased than lessened the excitement. A collision between the yeomanry and the people occurred near Holytown yesterday, but did not turn out so serious as was at first reported.—Glasgow Schardey Post.

NORTH STATFORDSHIRE.—Capt. Simmonds (the chief Government inspector of railways) made an experimental trip over the branch from Stoke to Urtoxeter, accompanied by the engineer, the manager, and the contractor, with a few other gentlemen, when the state of the works along the line was carefully examined, more especially the temporary bridge acrease the market-place at Longton, and the tunnel at the Mear; and Captain Simmonds, after expressing his approval of their stability, gave his official sanction to the opening on Monday last.

Original Correspondence.

COPPER SHEATHING.

COPPER SHEATHING.

Sir,—I have read, with great interest, the articles that have, from time to time, occurred, in your valuable Journal on this subject. Although not much conversant with the analyses of the different qualities of copper sheathing used in ships' bottoms, I do not think the deterioration can, in any way, be remedied by the practical smelter, until he has obtained a better and more perfect knowledge of chemistry than he at present is in possession of. It is an indisputable fact, that different ores produce various qualities of copper; but at present, disregarding this, or without inquiring into the component parts of the ores, the great business of the refiner is to make his metal as tough and malleable as possible with the least loss; and, I believe, scarcely any of the cake copper, from which the sheets are made, average more than 96 to 97 per cent.

That the excessive purity of the copper does not render the sheathing less liable to decay, has, in several instances, been clearly proved. Some years since, experiments were ordered to be made by the Lords Commissioners of the Admiralty, when it was found that sheathing, in one instance, with an alloy of zine, and in another with that of tin, had remained perfect 27 years; while another, in which the copper was found perfectly pure, was nearly destroyed in four years; and it has been stated, on undoubted authority, that since Government have attempted to purify the copper, it has been more liable to decay. That a small quantity of sulphur remaining in the copper does not deteriorate the sheathing, has been sufficiently proved in the case of several Norwegian ships, trading from different ports of Norway to tropical climates. These vessels, though subject to the salt water of the southern seas, which is often alleged as cause of corrosion, have, after 20 years, their copper scarcely worn. The copper used here is from the poor ores of the mines of Roras, near Dronthiem; the plates from which the sheets are manufactured invariably contain a more than

tain a more than average quantity of sulphur, and it is on account of the magnetic iron pyrites and sulphur contained in the ores, combined with the low per centage of the copper, excessively difficult to refine. Sir Humphrey Davy's protectors, which rendered the copper electro-positive, though in a great measure they remedied the corrosion, were found to be almost useless, as the bottoms of the vessels became incrusted with sea-weeds, nautical insects, &c., which, rendering them foul, caused the ships to be dull sailers; this was likewise found to be the case when they were laid up in harbour. This proves the theory of protection was correct, though its practical application, owing to these circumstances, had failed.

In the year 1831, M. Uzielli obtained a patent for composing an alloy to be mixed with copper for sheathing, in order to prevent its oxidation, which, though brittle when cast, is, by his process, made into malleable sheets. The proportion which he recommends is about 5 to 7 parts of tin to 100 of copper—a less quantity of tin than 5 per cent. makes an alloy liable to oxidation, while a greater quantity than 9 per cent. renders it hard and brittle, and requiring so much care in the manufacture, as to render it too expensive for sale. His process is thus described:—"The copper, having been melted in a reverberatory furnace, or any other suited to the purpose, or iron crucibles, the tin is added, and then the metals are well mixed, and combined together by stirring, while in a state of fusion. The melted mixture, or alloy, is then to be well heated, and a sufficient quantity poured into moulds, formed between two smooth tables of granite, or other suitable substance, so as to obtain a flat plate of from \$to 3 to 10 is they are gradually heated for three or four hours to a dull red heat, when the alloy contains from 5 to 7 per cent. of tin; but if it contains more tin the heat must be lower, and applied more gradually, and if less tin, the reverse. The plates are then allowed to cool gradually, which will take about an hour; and, when perfectly cold, they are pussed between rollers, set so as to effect but a very slight reduction of the thickness of the plates—about \(\frac{1}{2} \) in in 2 ft. length. The plates being again annealed, and carefully cooled, as before, are repeatedly rolled, until the texture of the alloy is changed, instead of crystallised and with facets, as it appeared when first cast. With the proportions before recommended, the close and fine grained texture generally takes place after 12 or 15 operations of annealing and cold rolling. After the texture of the alloy becomes thus changed, it may be rolling. After the texture of the alloy becomes thus changed, it may be heated more rapidly, and to a higher temperature, and cold rolled, so as to lengthen the plates, which, when east, were of 2 ft. length, 6 or 7 in. after each annealing. The plates, or sheets, are then rolled double, in the ordinary way; care must, however, be taken that they are always rolled

after each annealing. The plates, or sheets, are then roiled double, in the ordinary way; care must, however, be taken that they are always rolled in the same direction."

I do not know whether the alloy patented by Mr. Uzielli has been brought into much practical application, nor am I competent to judge of its merits or demerits; neither should I have introduced it here, had it been mentioned by any of your correspondents. Muntz's patent metal, which is used for bolts and sheathing, is, as well known, composed of copper and zinc. I think that the general use of alloys with copper, and their prevalent use to other purposes, sufficiently proves that the goodness and durability of sheathing is not increased by the purity of the copper; but, on the other hand, rather decreased. To arrive at a correct result, will, no doubt, be a task of no small difficulty; but I think a tolerable approximation to the truth might be arrived at, by taking an analysis of different sorts of old sheathing, finding the component parts of those which have lasted the greatest length of time, taking into consideration climate, action of salt water, and other causes, which could have acted on the metal. When this result was arrived at, it would then be easy for the chemist to give such information to the smelter, who, at the same time, should have a knowledge of the component parts of the different ores, so as to select the quality necessary to make the copper most suitable for the purpose.

COPPER SHEATHING.

COPPER SHEATHING.

Sir,—The interesting letter of Mr. Prideaux, on smelting and sheathing, in your Journal of the 13th July, I did not reply to in the following Number, as I intended; but, finding that some of your correspondents had noticed it, I waited Mr. Prideaux's rejoinder. I, however, cannot help thinking it evasive—he seems to solicit information and co-operation, and, at the same time, not to want it. He apparently wished to see if any modification in the processes of smelting affected the copper; and now, it seems, he can get any information upon these things privately. These statements are certain to prevent co-operation of workmen—namely: thinking lightly of the information they can give; for we know nothing but from practice. One modification Mr. P. refers to as a cause—viz.: calcining the ore in heaps. When this was generally practised, a falling off of the quality was observed; this process is still practised at Pary's Mines, Anglesea, and no doubt they make good copper; but it is because the ores are good, not the mode of calcining; for the same mode is practised in works on the continent, where the most inferior copper is made.

Mr. Prideaux also suggests the introduction of foreign ores as the probable cause of the falling off; but it appears that the quality was deteriorating long before foreign ores were introduced. Besides, the general character of these ores is to make good copper; the smelters used to purchase Anglesea copper, as a medicine for that made from bad Cornish ores; but since COPPER SHEATHING.

long before foreign ores were introduced. Besides, the general character of these ores is to make good copper; the smelters used to purchase Anglesea copper, as a medicine for that made from bad Cornish ores; but since foreign ores have become so plentiful, they are not now necessitated to do so; and, indeed, were it not for the quality and quantity of these foreign ores, many of the Cornish could not be wrought, from bad copper being in them. All smelters use the same process; and, except modifications in construction of furnaces, and other mechanical operations, there has been ores, many of the Cornish could not be wrought, from bad copper being in them. All smelters use the same process; and, except modifications into construction of furnaces, and other mechanical operations, there has been no change since many years previous to the time Mr. P. states the copper to have been deteriorated. Nevertheless, all smelters do not succeed in making copper of the same quality—some excel more in one sort than another. A common idea among the practical smelters is, that the cause of the difference in quality is from the presence of sulphur, and that it sometimes gets fixed in the metal, so that no refining can take it out—I speak of copper made from good ores, as there are ores that no one can make good copper from; but Mr. P. says, that he has never discovered sulphur in copper. I had always thought that chemistry would throw light upon this; but Mr. P. says, that no laboratory experiments will do anything, except along with the practice. Now, no chemists are kept at smelting-works—how then are the benefits he talks of to be realised? We can tell him nothing but he either knows, or can get privately. Everything is so familiar to us, that nothing appears worth tolling. My impression is, that Mr. P. must ask questions for iliciting what he wishes to know. If he has analysed the good and bad copper, has there been nothing to suggest a cause of the evil? Although analyses may not be understood by us, still we feel an interest in seeing it performed; and it may lead our smelters to employ men of science. We are anxious to learn, and willing to co-operate, if we knew in what way; but, probably, Mr. P. would rather have the co-operation of employers.—J. J.: Swansea Aug. 1. + COPPER SHEATHING-ITS WEAR AND TEAR.

Sin,—I observe, in a communication signed "Smelter," in your Journal of the 22d inst., that he considers a chemist would be a great acquisition in copper smelting establishments. I would just observe, that every smelter ought to be capable of discovering the composition of copper ore, and the various minerals contained in it—if not, he is no smelter. My time is too much engaged this week to allow me to go fully through the process of copper smelting; I will, however, point out an improvement which can be adopted, without putting the smelter to any inconvenience in altering furnaces.—I. All the sulphurets of copper should be calcined until the sulphur disappears.—2. In smelting the produce will be increased, and the scoria much cleaner, from the foreign matters being discharged.—3. In roasting you discharge a large quantity of gases, and be ready much sooner for refining. It is not convenient to avoid the use of iron tools in smelting, but it is a fact, that the more iron is used the more brittle the copper. It is evident, that iron assists in disengaging sulphur more freely. All ladles for copper smelting should be well loamed with clay and horsedung, and this will prevent all effect of iron on the copper.

Sweater & Refiner.

On the Oxidation of the sulver and coppers.

ON THE OXIDATION OF SILVER AND COPPER.

SIR.—It is only within the last few days that my attention has been directed to two letters, published in your valuable Journal of the 15th and 22d July, relative to the absorption of oxygen gas by pure silver in a state of fusion, and its subsequent evolution on the metal again returning to the solid state, or I should certainly have replied sooner to the doubts expressed in the letters of Messrs. Stagg and Mullins, as to the truth of the facts. I have now, however, to request that you will do me the favour of pressed in the letters of Messrs. Stagg and Mullins, as to the truth of the facts. I have now, however, to request that you will do me the favour of inserting the enclosed letter on the subject, written, as you will perceive, upwards of 30 years since, by my late father (who was, I believe, the first to discover the fact, and which was subsequently confirmed by the researches of the illustrious French chemist, M. Gay Lussac) to my late venerable friend and preceptor, Dr. Dalton, as I think it will afford a satisfactory answer to the doubts on the subject expressed by the gentlemen alluded to; and, in addition, allow me to state, that having myself been engaged for above 30 years in various metallurgical operations connected with the smelting and refining of gold and silver ores, &c., I can fully confirm the truth of all the facts named in my relative's letter; and I may further state, that whenever I have required a supply of oxygen gas for the purposes of experiment, I have always resorted to this source as the cheapest and most expeditious mode of obtaining it, and invariably with complete success. It may, perhaps, be well to state, that the silver must be perfectly pure and free from any alloy, as a very small portion of this latter will entirely prevent any "spranting" or "spirting." nor is there any gas evolved when the alloyed silver is poured into water. With respect to the amount of the gas absorbed by the silver, it was, I believe, determined by M. Gay Lussac, as I cannot find any statement of my father's on this subject.—William Lucas: Attercliffe, near Sheffield, August 8.

Letter from S. Lucas, Esq., to Mr. Datto

Letter from S. Lucas, Esq., to Mr. Dalton.

Sin,—When I had the pleasure of seeing you in Manchester, I mentioned having observed that pure silver, when melted, and while in a fluid state, had the property of uniting with a small proportion of oxygen, not only from the atmosphere, but also from other bodies, which gave it out at a suitable degree of heat, as some of the nitrates, for instance; and that the oxygen thus absorbed romains united with the silver only so long as it continues in a fluid state, or while fluid, until some substance be applied having a more powerful attraction for the oxygen. In proof of this, I now send for your inspection a few specimens of silver that have been in the different states, and which carry the external marks, and also a bottle of gas collected from silver which had been exposed to the influence of the atmosphere by cupellation. If silver, in large quantities, after having been exposed, in a melted state, to a current of oxygen gas, or atmospheric air, be allowed gradually to cool, the surface at first becomes fixed or solid; it his soon bursts, ebuiltion ensues, and an elastic vapour, in considerable quantity, escapes, driving before it a portion of the internal faild metal, which becomes solid as it is brought to the surface, and produces the protuberances, as shown in the accompanying specimen, No. 1. This challition continues from a quarter to haff-an-hour, or more, according to the quantity of silver, and the rapidity with which it is cooled. If, instead of cooling gradually, it be made to assume the solid state suddenly, by pouring it into water, still the same phenomena occur—an ebullition takes place, and oxygen gas is evolved; but as the silver is so much divided, and passes so suddenly from the fluid to a solid state, the protuberances are proportionably minute, and are spread more equally over the whole surface, as will be seen in specimen No. 2. No. 3 shows the arrangement of crystallisation which the silver proportionably minute, and are spread more equally ove

singleted, May 31, 1815.

Singleted, May 31, 1815.

INDIAN IRON AND STEEL.

Singleted in your columns, more than a year ago, bore testimony to what he termed "the splendid memory of my late father's talents." My father's opinions must, then, possess great weight with Mr. Radley the Latents and enterprise of J. M. Heath, Esq., introduced into India the charcoal furnace of England, and succeeded in making pig-iron of a proper quality in great abundance from the same ore from which the best Wootz steel is made." I have now before me testimonials from 20 manufacturers and engineers, including Messrs. Reeves and Greaves, the celebrated sword cutlers—all uniting in bearing testimony to the pre-eminent excellency of Mr. Heath's Indian iron, as applied to iron and steel-making. Again, in a report, published in April, 1845, by Smith and Ebbs, printers, Towerhill, London, a full and explicit account is given of all the difficulties with which the Indian Iron Company had had to contend up to that date. Had Mr. Radley perused this document, he would have put himself in a position to judge more accurately of Mr. Heath's merits as a metallurgist than he appears to have done. One of Mr. Heath's original discoveries, and which Mr. Radley would perhaps term a metallurgical quackery, was then estimated by my late father—namely: "As the greatest discovery in the art of steel-making which has appeared since the invention of cast-steel "—I allude to Mr. Heath's process for conferring the weld

IRON AND STEEL.

Str.,—I have no wish to attempt to treat—de omnibus rebus—far less to intrule into the mysteries pertaining to the quibusdam aliis, which my friend, "Ferreus," can alone be expected to elucidate. Perhaps, the fracture of pigs of iron ought to exhibit to the eye the particles of malleable iron which they contain. Perhaps, also, the fracture of porcelain china ought to exhibit the particles of alumina; but this ought, assumed by "Ferreus," is not borne out by the inspection of the fracture of either iron or china. I know of only one really exact science—viz.: arithmetic—fand its extended and general form of algebra. As no other science is strictly exact, or founded upon principles which admit of an exact definition or demonstration, so no other science can reasonably involve exact requirements. An approximative explanation is all that can be looked for upon many of the doubtful points involved in the details of an imperfect branch

of science, such as metallurgy. There is, I believe, no uniformity of substance in castings made direct from the blast-furnace; nor can they, in any instance, be depended upon to the same extent as foundry castings. This tends to confirm my views; because the iron in foundry castings has undergone one additional melting and two cementations more than simple pig-iron; and its component particles are more nearly assimilated, and possessed of homogeneity, which is usually an essential characteristic of strong castings. On the other hand, the absence of this homogeneity, and the more crude mixture of the various kinds of iron alloyed to form piginon, renders blast-furnace castings inferior and less to be depended upon than foundry castings.

foundry castings.

iron, renders blast-furnace castings inferior and less to be depended upon than foundry castings.

The bi-form monster, conjured up by "Ferreus," could only exist on the supposition, that the difference of specific gravity between fluid castiron and hot malleable iron is considerable, which is not the case. The malleable particles do not, therefore, rush to the surface of the metal; they possess only a slight degree of buoyancy, and have, therefore, a tendency to rise to the surface, when the metal has attained a state of rest previous to its consolidation. Will "Ferreus" say decidedly which work is the stronger—that made with mottled, or that formed from No. 1 pig-iron? He has left this question involved in ambiguity. The uniform levity of malleable iron, beyond a certain temperature, is not a matter of mere assertion; but of easy proof by experiment to all who can command access to a crucible, containing melted cast-iron, and who are provided with some malleable iron flings, or pieces of iron wire. Before the filings, or the pieces of wire, are fused, they will appear at the surface. If this does not arise from their levity, compared with that of the resisting medium in which they are immersed, what does it arise from?

How a given quantity of matter, fluid or solid, can, in a crystalline state, occupy more space than when in the state of particles, possessing a spherical form, appears to me inexplicable, as stated by "Ferreus"—for the spherical particles can touch each other but in one point; whilst the solid crystalline arrangement involves the coincidence of respective pairs of crystalline arrangement involves the coincidence of respective pairs of crystalline arrangement involves the coincidence of respective pairs of crystalline arrangement involves the coincidence of respective pairs of crystalline arrangement involves the coincidence of respective pairs of crystalline arrangement involves the coincidence of respective pairs of crystalline areas give a better explanation of the expansion observed during

It seems hard to convince "Ferreus" that the surface of high-blown tetal is, to a considerable extent, malleable—whilst the underside is desitute of this characteristic; but he may, in many ways, convince himself of the fact, if indeed he be open to conviction. The application of a file first to the surface, and then to the bottom of a piece of this metal, would convince any man that there is a very marked difference in the hardness of these opposite parts of the mass; and the extensibility of a portion taken from the surface at a low red-heat under the hammer, contrasted with the crumbling and dissipation of a portion taken from the underside, when subjected to the same treatment, would evidence to a candid observer, or experimentalist, that the surface pressessed a certain revourt of really subjected to the same treatment, would evidence to a candid observer, or experimentalist, that the surface possessed a certain amount of malleability, of which the underside was wholly destitute. As in a former correspondence with "Ferreus," I avowed that, for the limited knowledge which I possess upon the subject of iron, I am indebted almost wholly to my late father, I am at a loss to know in what manner I have incurred "Ferreus's" charge of disingenuousness and of inimitable assurance. I merely quoted, I did not claim the experiment which "Ferreus" first ridicaled as an improment said to my theory, but which he new here are merely quoted, I did not claim the experiment which "Ferreus" inst ridiculed as an impromptu aid to my theory; but which he now, by some quick mental process, very like the changing of saddles dexterously performed, admits to be all right, but only insufficiently explained. The reasonings and conclusions to which many of my father's experiments on the subject of bar-iron and steel had led him, will form a portion of his second volume upon bar-iron and steel, which he was preparing for publication, but did not live to complete, and which I hope to be able to edit at a future time; it would, therefore, be premature to detail them to "Ferreus." To ascertain that No. 1 iron gives out its carbon more readily than less future time; it would, therefore, be premature to detail them to "Ferreus."

To ascertain that No. 1 iron gives out its carbon more readily than less carbonated iron, it is only necessary to subject equal pieces of each kind of iron to cementation in oxide of iron with exclusion of air. In a given time—say, 12 or 24 hours—the No. 1 iron will have lost more in weight than the other kind of iron; from this I infer, that it yields up its carbon to form carbonic oxide, and subsequently carbonic acid, more readily than a less carbonated kind of iron. That varieties of pig-iron depend upon the condition, and not always upon the amount of carbon contained, in the pig-iron, is not new to me, though it may be so as an established fact to Mr. Wrightson and to "Ferreus." It is now more than six months since I pointed out to Mr. Thomas, of the Millbrook Iron-Works, near Swansea, that some pig-iron, which was of an exceedingly light grey, verging upon mottled and white, actually contained nearly as much carbon as the richest Blaenavon No. 1 iron—the difference in appearance depending upon the state in which the carbon existed in each kind of iron. In conclusion, "Ferreus" confirms, by his final remark, my former statement—viz.: that pure iron, in contact with an oxidised substance, is in its most fusible condition. The reason that the unfortunate pure iron could not find one particle of carbon to unite with in the cementing region of the furnace, is simply because it did not stay there long enough, but carbon to the protected. of the furnace, is simply because it did not stay there long enough, but came down to the melting region deoxidised, but not carbonated.

Coleford, July 31.

ROBERT MUSHET.

DIALLING IN THE FOREST OF DEAN. SIR,—I have to request the insertion of the following copaper.—Geo. Lawson Whatley: Mitchel Dean, August 1.

paper.—Gro. Lawson Whatley: Mitchel Dean, August 1.

Sis.—Mr. John Atkinson, of Coleford, has laid before me the Mining Journals of the 13th and 27th of May, and 17th of Journal, signed "Robert Mushet," and dated "Coleford," and which has led Mr. Atkinson, and also others, to the conclusion that they have enanated from you, and certainly contain most unfounded and libelious attacks against his professional and private character—attacks which, acting upon the advice of friends upon whose judgment he can rely, he cannot allow to remain unnoticed. I have, therefore, as the attorney of Mr. Atkinson, to request that you will inform me whether the libels complained of were written by you, and inserted in the Mining Journal by your direction; and, if so, I am instructed to demand from you a full and ample retraction of the unfounded charges and assertions contained in them; and also an apology for having made so unfounded and libelious an attack against the character of a neighbour, upon grounds which at the time of writing you had ample opportunity of ascertaining were wholly devoid of truth; otherwise Mr. Atkinson, will feel compelled, in justice to himself, to commence legal proceedings against you.

Gro. Lawson Whatley.

Michel Dean, July 24.

Mitchel Dean, July 24.

No. II.—To George Lawson Whatley, Esq., Mitchel Dean.

Str.,—I am the author of the letters to which you allude. I wrote those letters wh labouring under excessive irritation from erroneous views entertained by me of the subject matter. I have since satisfied myself that I have done the parties therein allude to the greatest injustice, and that the remarks I made were without just foundation, a could not with truth apply to the parties alluded to, and especially to that individue whom I more particularly stigmatised. I have, therefore, contradicted the offens statements in the Afringa Journal. If your client, Mr. Atkinson, considers himself a grieved, or in any way injured, by the matter contained in the letters in question, I she most happy to render him a sufficient apology; and that on the ground, that not cremark contained in those letters can, consistently with either truth up justice, be apply to him, in either his public or in his private character. I enclose you a letter of apole to Mr. Atkinson, which is fully due to him.—Robert Musher: Colejora, July 25.

No. III.—To Mr. John Alkinson, Deputy Gaveller, Coleford.

Sin.—I am informed that you consider yourself as alluded to and libelled by certain statements contained in my letters of the 18th and 37th May, and 17th June, which appeared in the Mining Journal. Those letters were written under great feelings of irritation, and under an erroneous opinion which I then entertained. I am now satisfiel that those statements are incorrect, and I have, therefore, fully contradicted them in the Mining Journal. This must exonerate all parties to whom I have alluded. I have, therefore, to apple to give to you for having lustily, and without justifiable grounds, made an unad under an erroneous opened at the second of the second o

No. IV.—To the Editor of the Mining Journal.

Sin.—In my letters of the 13th and 27th May, and 17th June, respecting dialiling in the Forest of Dean, I have, as I find, done the grossest injustice to the three individuals alluded to therein, and especially to the mining engineer, who has directed the operation of boring, &c., at the work alluded to. I have clearly ascertained, that not one lots of blame can attach to this gentleman, and that he has conducted the work in the best possible manner. Whilst I must ever regret having given publicity to statements which may have given rise to injurious opinions respecting an individual wholly undeserving of them, I am most happy to be able thus publicly to insert a full contradiction of the remarks which I was erroneously led to apply to that findividual, and this testimony will completely exonerate him.—Robert Musher: Coleford, July 24.

No. V.—To Robert Musiler: Coleford, July 24.

Sis.—I have laid your letter of the 25th ult. to myself, as also its enclosure of same date to Mr. Atkinson, before that gentleman; and I am instructed by him to say, that he is willing to receive those letters, in conjunction with your letter of the 24th ult. to the Mining Journal, as a sufficient apology; but that he feels it due to himself, to cause the whole correspondence to be published in that Journal on Saturday next; for which purpose I have, by this day's post, forwarded same to the editor.

Michel Dean, August 1.

[For ourselves, we see:

Airchel Dean, August 1.

[For ourselves, we can only say, that we deeply regret having allowed our columns to be made the medium of such an attack as that contained in the communications referred to. Knowing nothing of the circumstances commented on, and having every confident on our correspondent, Mr. Robert Mushet, we published his letters—without, perhaps, exercising sufficient care or judgment, and which, had they been received from a writer whom we knew and exteemed less, would, most certainly, have led to their rejection.]

COAL WORKING-" HITCHES."

Sir,—I am no geologist, but there are questions regarding hitches which I have never heard satisfactorily answered. In working out various seams of coal—of course the one working below the other—a hitch in one coal is often considerably less than in another, though the two seams may not be

Upper Seam Under Sean

or, though the two seams may not be a great many fathoms separate; and, quite possibly, some of your readers may be enabled to give satisfactory reasons for such variation. Again, we find hitches in under seams that are not found at all in upper seams; and very likely that also can be accounted for. But of late, in working an upper seam my carries to work. ing an upper seam, my curiosity was a little roused at finding a 2-fm. hitch, where, in the under seam (12

fathoms deeper), there was not the slightest trouble, the minerals lying quite regular. The annexed sketch is a section of the two seams. Perhaps some of your correspondents, who understand the nature of these things well, will give a short article upon hitches, and note, in particular, that of hitches being found in upper seams and not in under ones. I have no hesitation in saying it would be very interesting to many readers of the Mining Journal.—N. B.: Aug. 5.

ON EXTINGUISHING FIRE IN A COAL MINE.

ON EXTINGUISHING FIRE IN A COAL MINE.

SIR,—Your correspondent of last week, under the above head, has, in my opinion, taken a very correct view of the subject. On the principle of extinguishing the fire, I quite agree with him; the part ignited might most readily have been cut off by a stone, or brick stoppings; and, as in the case he mentions, the other parts of the mine might have been kept in active operation, with very little loss either to master or workmen, whereas, at Mount Osborne Colliery, Barnsley, the works have been standing upwards of a month. I feel much surprised that this very important question has not excited more attention.

A READER.

Burnsley. August 9. Barnsley, August 9.

ENAMELLING OF GLAZED PANS.

ENAMELLING OF GLAZED PANS.

SIR,—Your Journal being extensively circulated in Staffordshire, and other parts where articles for domestic use are manufactured, allow me to solicit space to direct attention to a subject of very considerable importance to the public generally—that of a person being seriously affected from partaking some refreshment which had been prepared in a glazed pan. I will detail the particulars of the case as briefly as possible:—Mr. Callon, an eminent surgeon, was summoned at midnight to attend a gentleman who was alarmingly ill: he had returned from his office in perfect health: but, after having slowly eaten some preserves, was saizad with Callon, an eminent surgeon, was summoned at midnight to attend a gentleman who was alarmingly ill: he had returned from his office in perfect health; but, after having slowly eaten some preserves, was seized with violent palpitations and painful contraction of the muscles, succeeded by giddiness, vomiting, and cold, clammy perspirations. Mr. Callon ascertained that the preserves had been made in one of the glazed pans which have been recently introduced into culinary service; and, on examination, he found that portions of the glacious surface had been removed by some corrosive action—small portions of it being scraped off. As the symptoms were analagous to those of poisoning by arsenic, he administered the proper remedies to his patient; and the pan he caused to be conveyed to Dr. Brett, professor of chemistry at the Royal Institution. Dr. Brett states, that "a portion of the enamel had evidently been removed from the bottom of the pan, as if by the corroding action of some acid." A small portion of the enamel was chipped off from the side, and submitted to analysis, when unequivocal evidence of the presence of arsenic was obtained. Dr. Brett says, "I have also made some experiments upon the enamel of an iron saucepan, apparently of the same description as that which you submitted to me. I find certain acids capable of acting upon the enamel, and separating arsenic therefrom. The acids used were muriatic acetic (in the form of common brown vinegar), and citric acid, and in all these instances I detected arsenic." Dr. Brett is pursuing his experiments on this important subject. We learn that Messrs. J. and C. Clark and Co., of Wolverhampton, the original patentees of the glazed pans, have left with Dr. Brett one of their saucepans, with a request that he will analise the glazed coating, as they are confident that the articles manufactured by them contain nothing in the slightest degree injurious to health. Other parties have been permitted to manufacture similar pans under protection from their patent, and for t

SIR ISAAC NEWTON'S HOUSE.

SIR ISAAC NEWTON'S HOUSE.

Sir,—In the literary sphere of society, for several years past, much has been written, and the best feelings excited, with a view to the restoration of the house of our immortal dramatic author, William Shakspeare. Now, I want to interest you and the public in favour of the house of another immortal countryman, whose magnificent discoveries in the higher fields of science brought to light those sublime truths, which have since guided the civilised world, in everything connected with the more abstruse sciences—I mean, the immortal Sir Isaac Newton. This house, where he for years lived and studied, is situated in Martin-street, Leicester-square, and is fast falling to decay. The outside, and much of the inside, is exactly as it existed in his lifetime; the observatory on the top is now occupied as a workshop by two bootmakers—the worthy sons of St. Crispin being elevated to the chair of Newton: such is the result of time and circumstance. The other apartments in the house are let out in numerous weekly tenements, and it is in a sad state of delapidation. The Newton Hotel of Bertalini, well known to all frequenters of the west end, is close adjoining, and was named after Sir Isaac. I have, Sir, for more than a quarter of a century, resided within 100 yards of the house, and have gradually watched its decay. I often visit the shoemakers aloft, with a great deal of emotion; I have not words to express my feelings on the subject, but I never enter the house but I feel I am treading on hallowed ground—ground which ought never to have suffered the desceration it has. Sir Isaac Newton was born at Woolsthorp, a hamlet in the parish of Colsworth, in Lincolnshire, on Sanday, December 25, 1642, and died at Kensington, in Middlesex, on Monday, March 20, 1727.—A. Smith: Princes-street, Aug. 10.

shire, on Sunday, December 25, 1642, and died at Kensington, in Muddesex, on Monday, March 20, 1727.—A. Smith: Princes-street, Aug. 10.

[I enclose you a perspective sketch of the house of the greatest man that ever this country produced; and if you will be kind enough to get a wood-cut for next week's Journal, I will send you some further particulars. I may additate may mite, by way of subscription, is ready for a restoration fund, if such can be commenced.]

STEAM-CARRIAGES ON TURNPIKE-ROADS.

STEAM-CARRIAGES ON TURNPIKE-ROADS.

Sir,—In answer to W. Radley, on the subject of Sir James Anderson's steam-carriage, I may observe that, although I stated the effects of noise, steam, and fire, were objections more or less attendant on all former attempts at locomotion on common roads, I did not mean thereby to infer that there were not other objections; and I agree with W. Radley's conclusions, that, if the same cumbrous machinery and carriages, and the same kind of arrangements of the machinery, and modes of construction, be adopted, then success would be, as he reasonably infers, very doubtful. Since I last wrote, I have inspected Sir James Anderson's steam-horse (if I may be allowed to make the comparison), and I have no hesitation in stating that, in my opinion, in almost every respect, it is vastly superior to any former attempt, either by himself or others, both for simplicity of arrangement and principle of construction; and that all the assumptions mentioned in the concluding part of W. Radley's letter, as needful to insure success, have been, in a great degree, accomplished by Sir J. Anderson in his present attempt. The weight of the entire engine, water, fuel, &c., will not, it is stated, exceed 60 cwts. I have, therefore, no doubt of its success—not that I mean to affirm that Sir James has arrived at ne plus ultra; but that he has, in my opinion, surpassed all former attempts, which I think cannot be disproved. But, whether successful or otherwise, it will not alter the opinion I have held, and still do hold, that steam, under the circumstances mentioned in my former letter—viz.: by adopting two timber tracks, or a track of 8 or 9 feet wide, made on the crown of the road, with finely broken granite, and cemented by an anti-absorbent concrete, 3 or 4 in. thick, laid on a firm base, so as to be nearly equal for smoothness and solidity to entire granite—with such a provision, there cannot, in my opinion, be the shadow of a doubt (where the traffic is sufficient) that, by such means, the public might

A foot-note, with the initials "J. D.," in reference to this, states—"I found this gas entain 86 or 87 per cent. of oxygen."

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al for there reyed nmoby Mr. Telford, on the granite track in the Commercial-road, a strong pony, weighing 4½ ewts, drew, on an incline of 1 in 116, 6 tons, exerting a power equal to 191 lbs.; a powerful horse, weighing 14 cwts., drew 12 tons, at 4 miles per hour, on the same incline, exerting a power equal to 382 lbs. After this most extraordinary exhibition and demonstration, who can doubt—what rational being will deny—the possibility, either with or without tracks, the final success of steam-carriages on good turnpikeroads.—Thomas Motley: Stangate, Lambeth, 8 mo. 3.

P.S.—It should be observed, that Sir James Anderson does not propose to go up incline planes of 1 in 20 at the rate of 10 miles an hour—if need be, at one-fourth or one-half; by which means there will be a great difference in the effective power of the engine; and, as Sir James proposed this engine to be safely equal to upwards of 3000 lbs., I leave it to your intelligent readers to calculate what it will be able to effect at given velocities; assuming that 50 lbs, ought to move a ton, at 4 miles an hour, the engine ought to move about 60 tons at that speed, provided the wheels could get sufficient tractive adhesion, and double that load on a good level timber track.

LOCOMOTIVES ON COMMON ROADS.

SIR,—It is stated by an eminent writer on the steam-engine, that a bushel of coals, as applied to the drainage of the Cornish mines, usually raised 40,000 tons of water a foot high; and that a horse, worked in a fast stage coach, pulls against an average resistance of about a ½ cwt. Against this he is enabled to work, at the usual speed, through about 8 miles daily; his work is, therefore, equivalent to 1000 tons, raised 1 ft. A bushel of coals, therefore, as used in Cornwall, performs as much labour as a day's work of 100 such horses. Engineers, consequently, to apply steam successfully to common road locomotion, have only to adopt, as far as practicable, the system carried out by Cornish engineers. Work steam highly expansively, clothe the cylinder, steam pipes, and condense the steam, by contact with the atmosphere (as patented by Mr. Craddock, or Trevithick), with a better mode of applying power to the driving-wheels; and a more perfect system of applying springs to the machinery is required, to prevent injury from shocks, or concussions on the road. If these points are carried out to the extent which our advanced state of engineering will enable them to be done, it will be found that steam-carriages may be worked on common roads, at a far cheaper rate than any other kind of conveyance.—Thomas Clarks: Blackwall, Aug. 3.

WESTERN-SUPER-MARE PIER COMPANY.

WESTERN-SUPER-MARE PIER COMPANY.

At the Wells Assizes, on Wednesday last, an action was tried, which had been brought by the Western-super-Mare Pier Company against Mr. Dredge, the engineer, of Bath, for not fulfilling a contract entered into by him to build a suspension-bridge (on the principle for which he had obtained a patent), in order to connect the main land at Weston-hill with the Island of Brainback, to recover back certain money paid to him. By a contract entered into on the 17th of April, 1847, the defendant undertook, for the sum of 10,000L, to be paid by certain instalments, to build, complete, and finish the bridge by the 1st of May, 1848, for the plaintiffs. It was contended, that the defendant had undertaken to complete the works absolutely—this he had not done. The company had undertaken to pay certain instalments of the 10,000L periodically, and 1400L, two instalments, had been unpaid by them; and, in consequence thereof, the defendant abandoned the works, which became whelly useless. Several witnesses were called, who proved that the works from the commencement were so badly done that they could never stand, and that on the discontinuance of the works they become quite in ruins.

For the defendant, it was contended that the payment of the instalments was a condition precedent on the completion of the works; and that, so far as they had been proceeded with, they were properly constructed, and that the injury to them was in consequence of the high winds and tides affecting the works before they were continued above high-water mark. It also was contended, that work had been done by the defendant to a greater amount than 1400L; and that, therefore, the plaintiffs were not entitled to recover.

Mr. Justice Williams having summed up, the jury, after considering for some time, found a verdict for the plaintiff, damages 1400L

Mr. Justice Williams having summed up, the jury, after considering for some time, found a verdict for the plaintiff, damages 14002.

Atrocious Conduct of An Engine Driver.—On the East Lancashire Railway works, at Tunnel End, near Burnley, on Friday, the driver and stoker of the Medusa locomotive were drinking, and had left, the engine in charge of the cleaner, whose name is Rhodes. When he was about to take the fire out of the grate, some persons in authority came down to the engine, and, wishing to go to the tip end at Rose Grove, were taken thither by Rhodes. Shortly after Rhodes had left, the driver, named S. Whittle, came down to the works, and finding the engine gone without him, he was very much vexed, and determined to place some obstacles on the rails to obstruct the engine on its return. He accordingly got three tail boards, belonging to the dirt waggons, and placed them across the rails, and fastemed them by driving iron picks behind the boards into the sleepers. He then got four iron furnace bars, and placed them across the rails, and afterwards more picks, to the number of eight, were struck into the sleepers, with the shafts upwards! By this time the engine was returning. The cleaner, Rhodes, sat in front of the coal-box; the Rev. T. G. James, his brother, Mr. James, of Liverpool; Mr. Donaldson, the engineer of the line, and another gentleman, being in the truck of the engine. Some person having noticed the obstructions made a signal to Rhodes to shut off the steam, and apply the break; but before he could do so, the wheels came in contact with the tail boards, and Rhodes was thrown off upon the line. The engine, too, was at first thrown off the rail, but, by some means, after having run a considerable distance, again came upon it. All the gentlemen in the truck fortunately kept their hold, and escaped unhurt; but Rhodes was doubled up by the engine, and on being examined, was found to have his right arm almost taken off, and both thighs broken. Mr. Smirthwaite, surgeon, of Burnley, was sent for, a

LONDON AND BRIGHTON RAILWAY.—At a meeting of shareholders desirous of promoting reforms in the management of this railway, held on Monday last, mpwards of 100 proprietors attended, and a series of six resolutions were unanimously adopted:—viz.: 1. That the expenditure of the company had been improvident.—2. That advances of 20,000L and of 28,000L, respectively, to promote a steam-packet company, and the Direct London and Portsmouth Railway were misappropriations of the railway funds.—3. That the foregoing advances had been concealed, and that the accounts of the directors were consequently disentitled to confidence.—4. and 5. That certain statements of the chairman in Parliament, and also of the deputy chairman, regarding the sentiments of the proprietors, had been unfounded; and 6. That the growing revenue of the company, combined with economy, would justify the expectation of increasing dividends, and that the proprietors present pledge themselves to use their efforts to effect the necessary changes in the management.

RICHMOND AND WINDSOR.—This branch line of railway, extending from Richmond to the present terminus at Datchet (in connection with the South-Western Railway), which was to have been opened to Waterloo-bridge on

Western Railway), which was to have been opened to Waterloo-bridge on Monday last, will not now be in working order for at least three weeks or a month, in consequence of some of the piers of the viaduct, extending across the Deer-park at Richmond, having sunk.

OPENING OF THE CALEDONIAN RAILWAY TO ARBROATH AND MONTROSE.—
The Castlecary branch of this railway was opened for public traffic on Manday last, thus completing the direct line between London, Perth, Dundee, Arbroath, and Montrose. The express trains from Dundee arrived at the Euston-square terminus in 15 hours, and from Arbroath in 15\(\frac{3}{4}\) hours. The line is continued from Arbroath to Montrose—coaches conveying passengers on to Aberdeen.

THE BEGINNING OF THE LARGE MINERAL DEVELOPMENT AT MERCHYR.—
The spirit of enterprise is making a rapid progress in some parts of South Wales.
The mountains that divide the counties of Glamorgan and Brecon are found to contam inexhaustible mines both of iron and coal, fortunately placed by nature as close together as the workmen could desire. But the value of these articles is greatly diminished by the tedious land-carriage to Cardiff. However, this obstacle will be quickly removed by the zeal of the country, which displayed itself at a meeting held at Merthyr Tydvil, on Saturday, the 6th inst., when the gentlemen came to the resolution of forming a canal from Cardiff to Merthyr, and entered into a subscription for the execution of this great work.—

Bristol paper, March 17, 1795.—[At this period, all the iron then then fabricated at Merthyr, was brought in waggons to Cardiff—relays of horses being kept at Quaker's Yard, Park Newydd, and at Duffryn Ffrwd Farm (Nantgarw).

X THE NEW BRAZILIAN WAR FRIGATE.

We have before noticed the Alfonzo, as being a splendid ship—her en-gines are fine pieces of mechanism: they were built by Messrs. Benjamin Hicks and Son, of Bolton, on a new principle, with direct action, and are, together, of 350-horse power, but will work more with perfect safety. All the beams and frame-work are of wrought iron, and the appearance of the whole (including the brass, &c.), is like a huge and beautiful specimes of the finest polished clock-work. Cast-iron would be double the weight, and not so secure. The same builders constructed the engines of the Fury, but they have here introduced many improvements. A variety of brasswork is introduced, including motion-wheels to speed, or to reverse, the engine with great ease and alacrity. The diameter of each cylinder is 68 inches, and the stroke of the piston 5 feet. The immense cranks are also of wrought iron, and weigh each 18 cwts. They were bored, turned, and planed. A great deal of the usual cast-iron work is substituted by copper and brass, and the whole is exceedingly compact, highly finished, and beautifully bright. The condensing apparatus is novel in principle the air-pumps, and the mode of admitting the injection water, are also quite new. The same may be said of the gearings, especially the eccentrics, which are curious and beautiful. Compared with another vessel of 550-horse power, on the usual principle (where cast-iron is employed), the saving will be at least one-third in weight, and the security will be one-half more. This, with general compactness, will more than compensate for the additional cost, which is considerable.

The boilers are on the flue principle, with fires at both ends. In the lower after engine-room there is "a donkey," of one-horse power, for pumping, &c. There is, also, in another part, a tank for the distilled water from the tubes, or steam-pipes. the whole (including the brass, &c.), is like a huge and beautiful specimen

SMOKE PROHIBITION BILL.—In the House of Commons, on Wednesday evening, Mr. BROTHERTON moved that the order of the day for the second reading of this bill be discharged.—Viscount Morretti did not feel himself bound to oppose the motion, although he was prepared to have voted in favour of the second reading of the bill. He was most anxious to prevent the excessive emission of smoke. It would be very desirable that the subject should be taken into consideration next session.—The order was then discharged.

of the second reading of the bill. He was most anxious to prevent the excessive emission of smoke. It would be very desirable that the subject should be taken into consideration next session.—The order was then discharged.

**The Smoke Nuisance.—Mr. C. W. Williams has just addressed the following letter to the editor of the Liverpool Albion:—"Being desirous of putting myself right with the public and the town council, I beg leave to notice, through your columns, the report of the proceedings at the Town-hall, on the 2d inst., in which my name is erroneously introduced. In this report, as given in the Liverpool Journal, of this day, is the following passage:—"A letter was received from Mr. Wye Williams, relative to the smoke nuisance, in which he stated that he had applied his apparatus with the best success to various boilers, and he was aurprised to find that some persons seemed to think that smoke could not be effectually consumed. Mr. Danson thought, that if Mr. Williams were willing, as he seemed to be, to try his apparatus at his own risk, he ought to be permitted to do so, for there was a very considerable difference of opinion out of doors respecting the possibility of consuming smoke." The letter there referred to was not written by me, but by some one in the name of J. Williams, but who, I believe, is insocent of the charge of either writing or insliting it. This report states that the writer 'was surprised to find that some persons seemed to think that smoke could not be effectually consumed." Mr. Danson truly observed that 'there was considerable difference of opinion out of doors respecting the possibility of consuming smoke. It is indeed, to be regreted that such individuals have been in placing their notions before the public, under colour of plans for consuming smoke. It is, indeed, to be regreted that such individuals have been so enabled to lead the public astray. Whatever may be the surprise of the writer of the letter, whoever he may be, or the difference of opinion among unscientific men, th

the nuisance abated, I trust the Liverpool authorities will not relax in those endeavours which have already been attended with such beneficial results."

Not the Application of Water to different Kinds of Fuel.—From the unpublished papers of the late Brig. Gen. Sir S. Bentham:—"The important experiments lately made by Sir H. De la Beche on coal have superseded those which had been devised by Sir S. Bentham, who had considered it also desirable to ascertain the amount of heat afforded by other kinds of fuel, such as wood, peat, and especially oil, either alone, or together with wood or peat, as those articles are in some places to be procured at a cheap rate, where coal is not to be obtained; and, as a sequel to his observations, the following memorandum has been found amongst his papers:—'In regard to all, or most of these different kinds of fuel, there seems some reason to believe that an addition of water may be made to increase the quantity of heat produced by their combustion. Chemical analysis appears, in some respects, to confirm the experience of persons of various classes. The practice of throwing water on coals is general amongst blacksmiths; the wetting of ashes on throwing them on a coal fire is the usual practice of housewives; mixing green wood with dry, and wet clay with small coal, has been found advantageous in horticultural furnaces. Experience has, to my knowledge at Derby, and I believe elsewhere, shown the advantage of letting water flow into the ash-pit under the fire-place of a steam-engine. Besides which, a very intelligent agent of Mr. Strutt's, in his gas manufactory at Derby, has proved by continued experience, that in burning for fuel the kind of oil obtained from coal in the production of gas, more heat is generated by the addition of water than would be produced by the burning the oil without the water.' It seems proper to add on this subject, that Mr. Strutt, of Derby, nearly 20 years ago, at Sir Samuel's request, kindly caused a trial to be made in a common steam-engine fire-plac

THE COENISH STEAM-ENGINE.—The following letter, signed by a "Cornish Miner, of Hayle Foundry," has been addressed to the Mechanics' Magazine:—
"There are two works before the public intended as books of instruction to engineering students—A Treatise on the Steam-Engine, by Mr. Bourne, and A Catechism, by way of Supplement. I have been somewhat amused at the way in which the Cornish engine is treated in these works, and I would beg a small space in your pages to give the ingenious author a little advice, which may be of service to him in his future publications—viz.: before he attempts to describe any machine, to endeavour by all means to see it at work, and not trust to drawings and describings given by other people for foar of heavy. may be of service to him in his future publications—viz.: before he attempts to describe any machine, to endeavour by all means to see it at work, and not trust to drawings and descriptions given by other people, for fear of being hoaxed. It is evident Mr. Bourne could never have seen a Cornish engine, otherwise he would not have made such mistakes—a writer whose talent and learning are so obvious throughout the rest of the work, where algebra, from simple equations up to the calculus, is seattered with a most profuse hand (I confess I can't always follow him in these things; yet of a surety they give the book a very learned appearance). In page 166 of the Catechism, after telling us that the centrifugal pump threatens to supersede pumps of every other description, Mr. Bourne says, 'the single-acting engine is a remnant of engineering barbarism, which must now be superseded by more compendious contrivances.' I must say, I feel great curiosity to see the compendious contrivance that is to supersede the Cornish engine. Mr. Bourne says, he has a substitute for the engine, I hope he will lose no time in giving it to the public. I always had an idea that, other things being equal, the engine that did the most work with the least quantity of coals was the best engine; but Mr. Bourne thinks otherwise, for in page 48, he shows that the Cornish engine works with less coals by 3 or 4 lbs. per horse-power, so that if the water were pumped up by them merely to work one of Whitlaw and Stirrat's water-wheels, the power would be given out by them more ecconomically than by the ordinary restative engine. And I have no doubt, Mr. Editor, before Mr. Bourne has completed his compendious substitute, they will be applied for that purpose in cities, where small power only is required for domestic purposes, &c. But, after reperusing his description of the Cornish engine, I fancy I can tell what makes him call it a remnant of engineering barbarism.

In page 169 of the Treatise, and page 137 of the Catechises, after describing the cataract, he says, 'and the planger (i. e. the cataract plusger) in its descent opens the injection valve, which causes the engine to make a stroke. If the cock of the cataract be shut, it is clear the plunger cannot descend, and as in that case the injection valve cannot open, the engine must stand still; but, if the cock be slightly opened, the plunger will descend slowly, and the engine will make a gradual stroke, as it obtains water necessary for condensation. Now, if any engine upon earth works like that, it is a remnant of barbarism sure enough! Somewhere also the author says, that 'a good Cornish engine should be capable of going 10 strokes per minute, or one stroke in 10 minutes.' But the idea of regulating the speed of an engine between those extremes by the injection cock, is too rich! I am sure whoever furnished Mr. Bourne with this description was guilty of a most barbarous experiment upon our author's credulity. I need not, however, tell your readers, that the speed of the engine is regulated by the cataract opening the steam exhaustion and equilibrium valves, and not the injection valve."

RAILWAYS IN INDIA.

The vast importance—nay, the imperative necessity—of carrying into our extensive and densely populated territories in the East Indies the benefits of the railway system, is now universally acknowledged, by all at all acquainted with the requirements and productions of this prolific country; and when to the railway system, is now universally acknowledged, by all at all acquainted with the requirements and productions of this prolific country; and when to be commenced, and in what manner, appears now the only question. With a soil which yields in rich abundance all the precious productions of a tropical sun, with a density of population in parts unsurpassed in any country in Europe, and an industrious people, with perfect tranquility, there co-exists such a difficulty of transit, as to convert this luxuriousness into barrenness, to fetter commerce, and often to lay many portions of the country under the sufferings of absolute famine, whilst the most abundant plenty reigns a few miles distant—while food is speiling and goods rotting for want of consuming. Overdrawn as this picture may appear, it is, nevertheless, true; and is occasioned by the bad roads—often absolutely impassable in rainy seasons—the heat of the climate, absence of bridges over rivers, and numerous other impediments. Among the several railway projects for India, which are to lay the foundation of this magnificent system, when complete, is the GREAT INDIA PENINSULAR COMPANY, formed originally in 1845, for the construction of a grand trunk line across the centre of the Peninsula, from Bombay in the west, to Coringa on the eastern coast. Commencing at Bombay, it was to ascend the western Ghauts, and pass Ahmednuggar, into the valley of the Godavery; then traverses the plains which skirt that river, cross the Godavery a few miles above Rajamundry, and proceed to its terminus at Coringa. It was proposed that four branches should proceed from the main line, on the north, to Candeish, Nagpoor, and Oomrawuity, forming the first portions of lines to proceed to Caicutta and the Ganges, on the south to Sholapoor and Hyderabad, capable of being afterwards extended to Madras. It was intended to commence this great series of lines by one from Bombay to Alleh, 108 miles, with branches to the Pera river, and Mhuze—in all 176 miles. These plans were afterwards be commenced, and in what manner, appears now the only question. With a

PREVENTION OF COLLISION ON RAILWAYS.

An ingenious contrivance for preventing accidents on railways, and one that appears well worthy of notice, has been exhibited at the Polytechnic Institu-tion for some weeks past. It differs from most arrangements of the kind in one important point—that is, to prevent collision, instead of lessening the

appears well worthy of notice, has been exhibited at the Polytechnic Institution for some weeks past. It differs from most arrangements of the kind in one important point—that is, to prevent collision, instead of lessening the shock when collison has taken place. This appears to be a move in the right direction. It is, perhaps, pretty well known that, by the existing arrangement, the services of the guard are required in stopping a train—the engine-driver not having the power of applying the breaks to the carriages; so that, in a case of emergency, if either of these officers be off his guard, it is so much valuable time lost; and let it be borne in mind, also, that the guard, individually, has no control over the train whilst the motive power is acting; and, although he is the one most likely to observe danger first, yet he can do nothing more than make signals to the engineer, so that he may understand that danger is at hand, and act accordingly—hence the many contrivances that have been put forth from time to time for enabling the guard to communicate with the engineer by signal; and again if they are both on the alert, and act the moment they observe danger, still the means at their command for stopping the train appear inadequate; and, in opposition to their exertions, the train runs on for a considerable distance.

Let us take the accident at the Shrivenham station, on the Great Western line, as an example. The distance the train run in that case from the time danger was observed, till it came in contact with the carriages on the line, was more than enough to enable the officers in charge of the train to stop it in perfect safety, if they had but the means at their command. This fact was proved by Sir George Cayley, some years since, experimentally. He showed that a train, proceeding with a velocity of 22 miles per hour, could be stopped within the space of 20 ft. in perfect safety, and for any increase of velocity in the same ratio; and yet, strange as it may appear, no plan has yet been put in practice

Direct Line between London and Paris.—The recent opening of the Rouen and Dieppe Railway completes the most direct communication between the two capitals, the total distance, vià Brighton, being 245 miles; that it is 100 miles less than the route by Southamptor and Havre, and 40 miles less than that by Dover and Boulogne. The Dieppe line branches out of the Rouen and Havre Railway at Malaunay, about seven miles from Rouen, and traverses, the whole way to Dieppe, a beautiful country. The total length of the line is 30 miles. After leaving the junction it follows, à demicôte, the Vallée de Cleves. It then enters the Vallée de la Seie, which it traverses till within two miles of Dieppe, passing by St. Victor, Auffay, and Longueville, at each of which places stations have been built. The line quits this valley and enters the Vallée d'Argues by means of a tunnel a mile in length, and almost immediately arrives at the Dieppe station, which, when completed, will afford every accommodation for passengers and merchandise.

Huddensfield and Manchester Railway.—The special jury case tried at the late York Assizes, in which Mesers. Nowell and Hattersley, railway contractors, were the plaintiffs, and the railway company the defendants, involved, we understand, no less a sum than 150,000. The action was brought against the company to recover damages for their illegally solzing the plaintiffs' railway plant and works on the above-named railway; and, besides what is claimed in this action, the plaintiffs also claim of the empany upwards of 100,000. for work done and materials supplied. A verdict was found for the plaintiffs, and all matters at issue between the plaintiffs and defendants, and between the London and North-Western Railway Company (the Huddersfield and Manchester Railway being amalgamated in their stock), are to be decided.

VALUABLE INVESTMENT.—PARTNERSHIP OF LICENSES FOR DISTRICTS OR ENTIRE COUNTIES.

Under British and Foreign Letters Patent.

HUTCHISON & CO.'S INDURATED AND IMPERVIOUS STONE, CHALK, SAND, PLASTER OF FARIS WORKS, CARTON ROOF SHEETING, AND WOOD, &c.

The produce supersedes all other building and decorative materials, for richness or effect, cheapness, and perfect durability.—Specimens to be seen at the chief offices, East Temple Chambers, 2, Whiteriara-street, Fleet-street, London; also at the Indurated Sandstone Works, Tonbridge Wells, Kent; or à la Maladrérie, near Caeu, France.

All particulars afforded at H. and Co.'s offices; or of Mr. William Hutchison, Castle Hotel, Tonbridge Wells, Kent.

DATENT ALKALI COMPANY'S IRON PAINT .- This

PAINT is the PRODUCT of a PATENT PROCESS, and possesses PECULIAR VALUABLE PROPERTIES, not otherwise attainable.

solour (as at present produced) is a rich purple-brown. It is perfectly free from deleterious qualities of white lead.

he deleterious qualities of white lead.

It surpasses all other paints ever yet discovered, in point of durability and economy.

Two coats of this paint are more than equal to three of any other description.

From its chemical composition, it is pre-eminently adapted for covering tron; also read, and stuccosif, or brick buildings. The process by which the base of this paint is pre-used, makes it impossible that any change should take place in its composition from immespheric influence. Its identity with iron secures is from galvanic action, so fatal to be durability of lead and other paints on iron work.

It has been exposed on shipping to the action of sen-water, and of the sulphuretted ydrogen, so prevalent in sea-ports and tidal harbours, for more than three years, with-ut change.

int change.

Its chappess and strength render it peculiarly suitable for tron bridges, roofs, and raillays, farm buildings, and shipping. It will also cover crossoted timber.

Price, by the ton, £25, delivered in London, exclusive of packages.

Agents will be appointed for the principal towns in the United Kingdom; in the mean
ime, orders may be addressed to the offices of the company, No. 20, Fenchurch-street,
London.

JOHN A. WEST, Secretary.

DATENT FLEXIBLE INDIA-RUBBER PIPES AND
TUBING, for Railway Companies, Brewers, Distillers, Fire-Engines, Gas Companies, Gardening and Agricultural purposes, &c.

THE PATENT VULCANISED INDIA-RUBBER HOSE-PIPES
are made to stand hot liquor and acids, without injury—do not become hard or staff in any temperature total are always perfectly flexible); and as they require no applications of oil or dressing, are particularly well adapted for Fire Engines, Pumps, Gas, Beer-Hargines, Gardens, and all purposes where a perfectly Flexible Pipe is required.

Made all sixes, from 4-inch bore upwards, and of any length to order.

Vulcanited India Rubber Garden Hose, fitted with brass-taps, Copper branch and Rose's complete, ready to be attached to pumps, water-butts, or cisterns.

Sole manufacturer,
Goswell Mews, Goswell-road, London.

N.B.—Vulcanised India-Rubber Washers, of all sizes, for joints of hot-water and steampipes, and Vulcanised Sheet Rubber, any thickness, for all kinds of joints, and other purposes.

MPORTANT TO RAILWAY AND STEAM NAVIGATION COMPANIES, MANUFACTURERS, AND ENGINEERS.

W. BROTHERTON AND CO.'S

PATENT LUBRICATING FLUID (or Animal Oil) FOR ALL DESCRIPTIONS

W. B. & CO. have the pleasure to state, that the above article is extensively used in examination of the principal Steam Navigation and Railway Companies, and is pronounced by them, and by the first practical engineers of the day, to be far better adapted for the purposes of lubrication than any other article intheric taxod for such purposes. The Patent Lubricating Fluid is equally applicable for the most intricate and finest pieces of machinery, as for the heaviest bearings of the steam-eighnon smell, and calculated to effect a vast saving in the expenditure of working steam powers. Further particulars can be lad, and testimonals seen, by application to the manufacturers, W. BROTHERTON & CO., Hungerford Wharf, Strand, London.

N.B.—The above article will burn in lamps, and give a light equal to the best sperm oil.

RAILWAY AND OTHER IMPORTANT RECORDS, EFFECTUALLY PROTECTED FROM DAMP AND VERMIN.

Extract from the Appendix to the Second Report of the Commissioners on the Fine Arts.

"In 1839, I superintended the construction of a house, of three stories, on the Lac d'Engheim. The foundation of the building is constantly in water, about 19½ inches below the level of the ground floor. The entire horizontal surface of the external and internal walls was covered at the level of the internal ground floor with a layer of SEYSSEL ASPHALTE,

less than half an inch thick, over which coarse sand was spread. Since the above date, no trace of damp has shown itself round the walls of the lower story, which are, for the most part, painted in oil, of a grey slone colour. It is well known that the least moisture produces round spots, darker or lighter, on walls so painted. Yet the payement of the Soor, resting on the soil itself, is only about 2½ inches above the external surface of the soil, and only 19½, at the utmost, above that of the sheet of water. The layer of asphalte having been broken and removed, for the purpose of inserting the sills of two doors, spots, indicating the presence of damp, have been since remarked at the base of the door-posts.

The DIRECTORS of the SEYSSEL ASPHALTE COMPANY have much pleasure in recommending to the notice of ENGINEERS and ARCHITECTS the application of the ASPHALTE of SEYSSEL, as the only effectual mode of preventing damp in basement floors, and water from percolating through the ARCHES of a VIADUCT.

The arrangements of this company enable works of any extent to be execute realist promptitude.

I. FARRELL, See

SEYSSEL ASPHALTE DEPOT, STANGATE, LONDON.

ESTABLISHED 1838.

This method has been adopted at the New Houses of Parliament

PATENT IMPROVEMENTS IN CHRONOMETERS, WATCHES, AND CLOCKS.—E. J. DENT, 82, Strand, and 33, Cockspur-street, watch and clock maker, BY APPOINTMENT, to the Queen and his Royal Highness Prince Albert, begs to acquaint the public, that the manufacture of his chronometers, watches, and clocks, is secured by three separate patents, respectively granted in 1836, 1840, 1842. Silver lever watches, ievelled in four holes, 6 gs. each; in gold cases, trop \$3 to \$10 extra. Gold horizontal wa ches, with gold disls, from 8 gs. to 12 gs. each; DENT'S PATENT DIPLIEDOSOOPE, or meridian instrument, is now ready for deliver. Pamphlets containing adescription and directions for its use is. each, but to customers gratis.

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INFORMATION, detailing the eligible course for PROTECTION of INVENTIONS and
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Application personally, or by letter, to F. W. Campin and Co., No. 210, Strand (corner of Essex-street).

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Incorporated.—Capital £250,000.

Established upon the mixed, mutual, and proprietary principle.

Established upon the mixed, mutual, and proprietary principle.

Ratas essentially moderate.—Every description of policy granted. Immediate, survivorship, and deferred annuities; and endowments to widows, children, and others.—Every policy (except only in cases of personation) indisputable.—The assured permitted to go to and reside in Canada, Nova Scotia, New Brunswick, Australasia, Madeira, Cape of Good Hope, and Prince Edward's Island, without additional premium.—Medical men renumerated for their reports.—Leans granted on real or personal security.—One that of the entire profits appropriated for the relief of the assured while living, and of his widow and orphasa.—Annuities granted in the event of blindness, insanity, paralysis, accidents, and any other bodily or mental affliction, disabiling the parties.—Persons of every class and eagree admitted to all the advantages of the corporation.—Rates for assuring £100 at the age of 25, 35, 45, and 55, respectively—namely, £1 14s. 6d., £2 5s. 6d., £3 4s. 3d., and £4 18s. 6d.

Prospectuses, with full details, may be had at the office.—Availations.

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W. AND J. GALLOWAY, PATENT RIVET WORKS. MANCHESTER.

ention of parties who employ Mitting Inche,

illy requested to the



BRITISH SMELTING ASSOCIATION.

CAPITAL £500,000, in 50,000 SHARES, of £10 EACH.

Provisionally Registered, pursuant to Act of Parliament, 7 and 8 Victoria, cap. 110.

AN INFLUENTIAL BOARD OF DIRECTORS IS IN COURSE OF FORMATION, AND WILL SHORTLY BE PUBLISHED.

64

This company is formed for the purpose of carrying on the smelting of British and Foreign Copper Ores, on the best and mo inciples. It is intended to apply the capital of the undertaking solely to the operations which are inseparable from that business.

The present smelting companies, few in number, and without competition, are the purchasers of nearly the whole of the ores raised in this ntry, as well as of that imported. The whole burden of carrying on the copper trade is, therefore, thrown upon them; and it is not to be wondered at, that the mining interest should have some reason to complain of a monopoly, when, from the existing state of things, the whole of the British and foreign ores is necessarily thrown into the hands of a few private companies.

It is well known that they realise immense profits; and, to prove this, the following statement of the Cornish and foreign copper ores, raised and sold during the years 1846 and 1847 respectively, may be given. Of the Cornish ores each different ticketing, during the year, has been calculated separately; but, for the sake of brevity, the results only are given:-

Average Av. price of Produce. pure Copper. Ore. pure Copper. Ore. pure Copper. for Ore. produced. Profits. 21 cs/s. Tons cs/s. £ s. d. £ s. d				1846.			3 8 45	
Cornish Ores	The state of the s						CALL CONTRACTOR	
	Cornish Ores	92	153,620	12,113 17	815,015 11 6	1,119,197 19 0	304,182 7	6
							963,435 12 450,055 8	6

				1	347.								
	Average Produce.	 orice of Copper.	Quantity Ore.		Quanti pure Co			Amour for (Value of pu produc	pper	Gre	
Cornish Ores						- 5	** ** **		6		0		13
Totals Deduct smelting charges, &c.,					22,165			,432,620		2,086,979		654,352	

It appears, therefore, that, during the year 1846, the smelters realised, at least, 35 per cent. on copper ores alone, and in 1847, 19 per cent.—
The falling off in the latter year is evidently, in a great measure, attributable to the decreased importation of foreign ores—the difference, compared with the previous year, being 18,622 tons. Upon foreign ores the largest profits are made; for, it must be remembered, that a considerable quantity, particularly that from Chili, comes in a state of regulus; and, although the smelter may actually give a higher price for it, yet, having gone through three of the processes required for smelting, the expenses of reducing it to pure copper are not so great as that of the rough Cornish ores. It is not acknowledged to be regulus, but, nevertheless, it is so, although entered under the designation of "ore."

The above statement is a very moderate one, as it is believed that, at Swansea, the ore may be smelted at a less cost.

The great complaint of the miners against the smelters is, that they do not get a fair price for their ores, in proportion to its produce, and the price of pure copper in the market—that is, it does not vary uniformly. The following table, compiled from data published in the Mining Journal, proves forcibly the justice of this complaint. It shows the different sales of the produce of the Cornish mines during the six months ending the 30th of June last, with the average standard, produce, price, and quantity of the ore, the quantity of fine copper, its price per ton, and the amount of net profits realised:— PRODUCE OF CORNISH MINES FOR THE SIX MONTHS ENDING 30TH JUNE, 1849.

Date of Sale.	Average Standard.	Average Produce.	Average Price.	Quantity of Ore.	Quantity of pure Copper.	Amount paid for Ore.	Price of pure Copper.	Value of pure Copper.	Gross Profits.
January 6 , 13 , 30 , 30 , 77 February 3 , 17 March 2 , 9 , 23 April 6 , 20 April 6 , 20 May 4 , 13 , 18 , 18 June 1 , 18 , 22 , 8	£ s. d. 99 1 0 94 6 0 87 14 0 101 5 0 102 19 0 91 7 0 91 7 0 102 16 0 97 13 0 93 1 0 100 11 0 98 9 0 64 10 0 92 2 0 81 17 0 98 12 0 88 12 0 88 12 0 88 12 0 88 12 0 88 12 0 88 12 0 98 4 6 0 99 2 4 0 92 4 0 92 13 0	890 7758 + 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	## s. d. 5 8 0 5 17 0 6 0 0 4 14 6 4 19 0 5 17 0 6 14 0 4 19 0 5 17 0 4 13 6 4 13 6 4 13 6 4 13 0 5 10 0 5 11 0 5 10 0 5 11 6 5 10 0 5 11 6 6 4 3 0 4 17 0 4 14 6 4 14 6	21 cuts. 3444 2279 2693 4210 4294 2506 2687 3237 3237 2485 2493 3012 2702 3271 4562 3966 3966 3966 3996 3996	Tons cuts. 282 14 208 7 268 3 311 12 319 17 190 14 259 3 192 5 256 16 203 1 271 7 357 16 360 3 232 19 292 1 196 19 269 7 291 14 291 3 339 5 284 4 291 3 339 5 284 4 165 5 290 5	## 8.53 1.4 0 18,531 14 0 16,118 6 6 16,118 6 6 19,976 4 6 21,133 6 6 11,2596 19 0 16,787 8 0 17,503 3 0 17,503 3 6 17,233 3 6 17,233 3 6 21,498 12 0 18,912 12 6 16,402 10 6 16,402 10 6 16,402 10 6 16,403 10 6 15,355 11 0 15,813 14 6 15,355 11 0 15,813 14 6 15,355 11 0 15,813 14 6 15,355 11 0 15,813 14 6 15,355 11 0 15,813 14 6 15,355 11 0 15,813 14 6 15,355 11 0 15,813 14 6 15,355 11 0 15,813 14 6 15,355 11 0 15,813 14 6 15,355 11 0 15,813 14 6 15,355 11 0 15,813 14 6 15,355 11 0 15,813 14 6 15,355 11 0 15,813 14 6 15,355 11 0 15,813 14 6 15,355 11 0 15,813 14 6	£97	£ s. d. 27,426 15 0 20,202 19 0 26,010 11 0 30,329 15 0 29,426 4 0 17,549 0 0 23,841 16 0 17,649 0 0 22,550 0 0 17,688 8 0 23,873 16 0 31,693 4 0 22,550 0 0 17,639 12 0 25,700 8 0 17,331 12 0 25,700 10 17,538 10 24,741 4 0 29,554 0 0 25,509 12 0 24,741 4 0 25,009 12 0 24,741 4 0 25,009 12 0 24,741 4 0 25,009 12 0 24,741 4 0 25,009 12 0 24,741 0 27,542 0 0 27,542 0 0 27,542 0 0 27,542 0 0 27,548 8 0	
Foreign ores		av. 8½ 25 (including regulus.)		75442 20258 95700	6254 6 5064 0	379,848 6 6 232,956 12 0 612,804 18 6	Average £92	563,832 0 0 465,888 0 0	£183,983 13 6 232,931 8 0 £416,915 1 6

Deduct smelting charges, &c., at £17 per ton of pure copper.....

A single glance at this table will show, that, while the produce has been above the average (8\frac{1}{2}), and the average price of pure copper was the same as the average of 1846 and 1847, yet the prices given for the ore were remarkably low. The standard, certainly, has varied considerably, but that is fixed by the smelters themselves, and appears to have no regular or uniform rule. Take, for instance, the sale of the 30th of March—the produce is 7\frac{3}{3}, and the price of pure copper 92l. per ton, the price of the ore 4l. 13s. 6d., and the standard is 100l. 11s.; compare this with the sale of the 25th of May—the produce and the price of copper is the same as the former, but the standard is marked 90l. 6s., and the price of the ore is only 3l. 19s. It is evident, therefore, that the miner is subjected to great loss by the monopoly of the smelting trade—whether unavoidably or not, it is not necessary to say. The following are the total amounts of copper ore imported in each of the five years, ending 5th January, 1848:—

 1843
 Tbns 54,370
 1845
 Tbns 56,697

 1844
 53,405
 1846
 51,623

 1847
 Tbns 41,490.
 51,623

From this it appears, that a large falling off took place last year—caused, in a great measure, by the duty which is at present imposed upon foreign ores; but a bill being now before Parliament for its reduction, and which will probably repeal it, it may confidently be expected that a much larger quantity will again be imported. The principal decrease has taken place in the ores imported from Chili and Cuba, whence the largest quantities come; while there has been a considerable increase from Australia and New Zealand, although the supplies from that quarter are only commencing. There can be no doubt also, that the falling off in the import from Cuba is attributable, to some extent, to failures in the production from the mines; and, probably, this is true as to Chili, though a portion of the copper ore of that country may, in consequence of the duty, have been smelted there, or in America, instead of coming here:—

Cuba.

Australia and New Zealand.

Tons 19,825
19,566
10,823
13,565
9,222 31,683 34,764 44,764 41,341 41

If, therefore, the reduction of the duty cause the importations from Chili and Cuba to increase, it is probable that the total importations will be considerably larger than they ever were; while, it will be observed, as regards the returns from Australia and New Zealand, such have increased from 134 tons, in 1844, to 5795 tons in the past year (1847); at the same time that other mines, among which are those on the island of Kawaw, near Auckland, belonging to the North British Australasian Company, which are only now coming into active operation—10 to 12 tons per day being raised therefrom, as appears by advices received some time ago, and the whole island containing lodes of extreme richness. From this source alone a large additional supply may be expected. The rich mines of South Australia are too well known to require any comment.

It may fairly be expected, therefore, that the smelting trade will be considerably increased; and, in ordinary times, the demand for copper will be fully equal to any supply that may take place.

In the above estimates, the smelting and other charges for making a ton of pure copper, according to the usual process at Swansea, has been taken at 17t; but it is well known that it does not, in general, cost the smelters so much. Even at that rate, however, it is evident that their net profits are upwards of 30t. per cent. It is considered advisable that this company should adopt any recent improvements in the smelting of copper, by which it may be done more economically, and at the same time as efficiently.

It will also be of great advantage, if works already erected can be obtained, either on lease or by purchase, in order that operations may be commenced with as little delay as possible, and thus make an early return to the shareholders. For that purpose, inquiries are now being made at, and in the neighbourhood of, Swansea; but when the board of directors is formed, the question of the locality of the works will be taken into consideration. Practical and experienced men will also be selected as agents and superintendents.

At present money is very abundant in this country, but, from a general want of confidence in the safety of most investments, it is kept comparatively idle, and only a small rate of interest can be obtained for its use on the best securities.

In bringing this undertaking before the public, the directors confidently recommend it as an investment of no ordinary security, and one which, it has been proved, will yield a large profit. A call of 2l. per share will be made on complete registration; 2l. per share payable six months after complete registration, and the remaining calls as may be found necessary—but three months, at least, will be allowed between each payment, and one month's notice will be given.

Lendon: Printed by Richard Middleton, and published by Henry Exelist (the proprietors), at their offices, No. 26, Fleet-street, where all communications are requested to be addressed.—[August 12, 1846.

Communications may, in the meantime, be addressed to Messrs. Dacie and Son, solicitors, 18, King's Arms-yard, London.